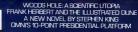
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# FIRST

By Gerard K

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years SSI's capital resources, acquired by such voluntary gibs, will rever equal the was sume that governments solved from otizens by taxation, but SSI is building assess that are even more reportant ordinary and tangewhy it as committed to opening the resources of

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With its constancy of purpose and its independence. SSI is proved plate of its amount of money spect levely can be many effective in advancing a cause the much larger sums scattered for purpose that change with every pressurg year.

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were delighted that Swee standing visual effects in the Twentieth highly weable in European professions 1997 Giners art was shown open nationally for the first time in Climin. The ert director Frank DeVino observed recently 'expicies the identiones and

"Invisible Stripes" (October 1978) and "fantastic regism " a dense that on princed

Dennis Overbye was named the 1990 public understanding of physics and Sandlengs " George & A. Martin's sprine

"Natural Packages: (November 1978) and

work is given shape by his personal vision.

conceptus' depiction of artificial (Dotober 1979) Frenchman Ryom Lacombs who at the tender age of teopayed an award for our July 1979 cover

shaping the future of aports. Computers Winners" (cage 44). A model for names like Geothey Beene, 84 Blass, and Drane Von Fürstenberg. Susan Mazur several years ago turned to the typewriter

we've experisted explusively for our readers (page 50) DO



Bodor et Chiur Sob Gacconto: Executivo Collor

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### COMMUNIC/ATIONS

Technological Cheedcarton Eden" in the April (1990) issue, one paged he truly believes the spen-ofts will reduce

It is true that shutfle technologies will those gost reductions will be passed on as Technology may change, after all, but

Langley B.C., Canada

Ray Bradbury, I have been able to shut a system has nothing but gripes about our space program. Articles such as: Beyond.

In His Image A number of investigators are studying the

Shroud of Tunn to determine whether it through the rhetoric about the Shroud it already have an experiment under way in Marrength Country Satan, amicry(7) Cloning is a small technical step from the

Sandy Shakopius Boectrum Technology Service

Last Words

Your Last Wood onlymn (May 1980) diel a tensible injustice to a good science-fiction opening all the hatches to let the creature not have blown the creature into space at

John Moran

management it set Word Appl 1980) Artest by the research of a special committee currently constructing a sewer that promises to be the ultimate in when it gan back in surken luxury More other should adopt the concept of incorporated boundaries. We of Ratis

Bartle Creek, Mich.

1990 Last Word Specifically, I am referring to the part on

### DALOGUE

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consuppose testing of strong aroung out of Other and them and them and them and them and them are described in the general minuted are described from the views published on not represently from all the other. Letters for publication should be misled to Other Fotiers, Other Magazzen, 300 Third Avenue Hele Solk. NY 10022

AV 10022

Support Our Space Program
I am clinicating this letter to college equivers. Having learned of the closels of both this Galliston and Hellings. Cornel Temper II im season and the embraneaum old by of the Shatistic program—and hearing seen this space program profit education.

those of us who support our spreas program our faunt address the issue. The method for licting the government know how we feel is sample. Gegin is perfron at your crallege, collect signalizes and submit them to the proper officials of the President and Comprise.

and submit higher to the proper criticals of the President and Congress.

Atheer to the President on Space Atlans. Benjamin Hubbertran,

DC 2050p

Director of Space Science and Applications, House Subcommittee

Appetations, House subcommittee
Don Fugura, Room 226, Raybeam Office
Building, Weetington, DC 20515

Director of Science, Technology and
Space, Senate Subcommittee, Adult E

DC 20510
There are nearly 1,000 colleges and universities in the United States, with an average of 2,000 statents per institution. We appropriate a powerful factor and we can

a powerful force and we can ture Peter H Diamenda Green North NV

Self-Righteous or Good Gardener?
Most of James Randin comments in
Drins (Integriew Apail 1980) seem correct.
Vist, as Randin rails agented the abovemaneting of a bit Gallat his 5 basy grandstanding with his own Un Awards and the Barrin (Zehleroon He cales cases that smack of slow-witted folk he deems acceptable for reducing Little worder his offers to prove classed abelies are turn down Who wants to be the public fool? The problem lost in the amplance of

The problem less in the amaginize of self-eighted compaging. What people believe may be footich or even dangerous but the right to move build in must be protected. Cut Bagain necessimmed as story public education to inform and affect, those beliefs. We meet to understand the connection between belief and story. As Stoon has power out, sewers in:

not to misch is body of howeledge as a way of thriften. The washing scientific emigration appreciates the quality of metaphor in the Liberatisticy Proceeds of the Second Law of Thirmodynamics as well as the operation from proceeding well as the operation from proceeding well as the operation from proceeding law of the proceeding as the proceeding law of the proceeding law of the proceeding procedure of the procedure control of the procedure procedure pr

impossible he is very probably wrong.
Richard Currey
Farmington N. Mex.

James Bandia story about his "larger"

description mostly serves to demonstrate his tack of understanding of the return of leads and the purpose of board breaking. We are concerned about the ermoneurs and dangerous impression he has existed — and more concerned that he seems to be arguing more from that than from an expression of the facts than from an expression of the facts.

One of us (M. David Stone) is a social water and a third claim black both in Too Kison Do, which his has been skidying over 15 years. The other (Richard A. Brand) is a thrombical physical and a second dan black both Dot of us shall bland in Skepholm about 159.

Rand's Skepholm about 159.

White it is certainly insetted almost anything can be falled, the fact consists that any block before any legitimate style can break unprepared, unsawed undred wood in our style for excepting part of the test for first dan contests of breaking a maintrain of break inches Deporte the unpression that Rank gives. the is not all the ears for these who have been stricting.

karato for two or finite years can have sociate with the part of the test and in fact, students have been known to mer a break and in use themselves. Breaking a bore in the hand of lock, while rine, is not unknown. The point is, just because Raind on show how scentifling can be falled if.

does not folios final it must be falved. What befairs is its fine Rand's comments about Javase, based on minimum research and slappy thriting demonstrates such a complete lack of substitity that we card that was default to debuning a lary Up Gallon is just be based less We support only. But we supply the card had been supply the card had been supply the supply of the card to the way to be supply the supply of the suppl

Professor Richard A. Brand New York, N.Y

Congretulations on your interview with the American Bands. He deserves these choicis for his important work of deburking charatants like tin Saller They have speared a whole new generation of

spassed a whole new gontriends of tarry-yeed side and has believed whose many werehearned y and possible scientific pergon opposit like weeds in the well-bended garders of acantos. If those weeds atom to healed, they will chick this real and began that flowers of the science that manifest has labored so long to califyrate. Jurges Rendis one of the pool califyrate. Jurges Rendis one of the pool.

honest inclosey rather than by paramorthist power as he goes about his weeding immersed Chin

In April you can an openium with James Braids the magazin He discerbed certain procedures used in playing a sensor of some procedures used programs and some process of the sensor of some process of the sensor of concludes that the issues of the sensor concludes that the issues of the sensor some process in Herman process of the who canned out the suspect in procedure. I find that his description and my opportunities are some process of the process process are no explainted. The sensor process where Pacid gets his average. The process is the process of the process that the process of the process process of the process of the process process of the process of the process pro and has been informed of its inaccuracy, yet he persets in what can only be called "goes dishonesty". Before you publish such now-libelous attacks against a counting timals respectively, made by a cross magician who feels he count threatment tredity you might at least investigate the claims.

Peter Schwertz SRI International

James Randi regives. The "slow-witted folk" mankoned are those found by perapsychologists as exacte workers. And a reagonism who exakes a fool of his halper makes a fool of his ready as the folk of his halper makes a fool of histogram.

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which is destinated in these brought when a first man when the first man when the second man secon

anormakata and office

Nuclear or Natural Throat? In Orne (Earth, April 1960) you discuss the flight of legal descreat by the Visia satellity. As the article states the experts suspect that the flight was claused by developing a visit of the property of the pro is another explanation groundle not discussed in the strain. The filter could have been claused by a natural phenomenon emind to the Turgurka explanance 1906 in the LPD Update explanance 1906 in the LPD Update column of the Cultoria 1974 strain private summarized whall was recent south the 1908 explanance The article the notice of a senter explanance that had share taken over Phenostock (Canada in 1956). This blast in the Fertim range, was directly than Explanance to complete the things of the strain congress.

attributed file a melacitis, possibly a chlorif from Encies Conet.

Tauggost that the Rash seem by Velin was worther auch melacitis First Weldsile a double fluid suggesting that the hypothet acid melacities was breaking up so that the different pileosis did not explicitly.

oringens peacle bit het verplace simularecoulty. Web did not older the reduktion and magnetic despitations in would have sexual from a sould sold in the peacle of the contraction of day not load to propose of section in the peacle of the contraction in allocated by a nuclear black. How does the section of the section of Canada's I believe that the peacle bits yould be made and the septiment peacle for the contraction of probability and sold the peacle of the contraction case and the section of sold the peacle of probability sold the made that the peacle bits probability sold the made the section case and sold sol

loneld A Bereno Bultain N

Technological Institution
"Cetaman Boom" points out the folly of implaced technology. More and more women are realizing that their bodies are capable of handling the thaumst of children's K. C. Cole is supporting the

complicated modeal problem. The fact is, however, most bethe can and should be completely instead. Feat is, the number one factor in the pain most women endure-inlabor. Antisead weam, welcoming atmosphere as a benefit to beth mother and child. A Designent section is a disastic, step that results in medical consolications for the mother and offert.

Contray to Cale Singic canon that Casanae exclusive sealth missing perfect babbas. If had been succeptual by many open-mixed project care since the 1900s that the best method of distincy is an instant even or possible. O'the Orthological missing even for the missing y feature in the contrast of the contrasting of missing even of the missing y feature ing during labor and delivery. It is a good missing even of securities which completely healthy persons subjected on concessions y usage. The birth of a child connecisions y usage. The birth of a child.

makes if sound the a gallstone serious R. Fan Thunder Bay Ont. Can

More on Calife Mutations
I feet I must respond to Alan K. Berghams.
letter [Forum April 1960] on the catife
mutation mystery Bergham suggests that
the federal government is monorone the

Weed by surregitiously is ling and class comprisingly owned classe of the second classe of the second classe of the second classes of the second classes of the second classes of the second second classes of the second classes an intelligence algorithm of the second classes an intelligence algorithm classes of the second classes are intelligence algorithm.

ton in discyterhouses collect the needs parts which could later be devired to the appropriate governmant approx! I have been depoly who then on the investigation of these storage arimst deaths a more 1974 where a service of hem occurred in may home state of Minnecota, where the military has new conducted suckers or themselves are experienced to the service of the service of the Later this year Manor Books will publish the sessits of my investigations. This book provisionally writted this Stora classifica-

> frack the scientific foundations Michael D. Albers Michael D. Albers Michael D. Albers

As Time Goes By
The case is not closed in the April 1960
Gamps column your 'Clock Problem'
states that in 32 hours, the hands of a clock are compared if 1 times from any warray Start countries of (1)12 CO. (2) 1 Ob. (3) 2 10. (4) 3 15 (5) 4 20. (6) 6 28.

> Lynn Ericksen Lockpart III

Sect Martin segines on the introduction on the parable Floral was a great on the a transparent on the administration of the canonical segments—and I was right in the canonical sead of a clock concreted at 11.55 and again the ministrations story of 12 days. After the macronical search of the canonical search of the ca

3 9821 82: (6) 427 49 09 (5) 527.16: (5) 62 44 52 64 (7) 7 35\*10 91 (8) 6 43 98 18 (9) 9 40 5 46 (9) 19 54/92 73 (11) 12 09 00 00 7 he clock hands are no coincident at 1 55, as Ma. Enchash and several other moders suppost. At 1 00 the Mile hand points in the "T. but Mile stricted 1 Mark

readers suggest. At 100 the lipoints to the "T" but five retrict when the big hand points to the late hand has already moved the little of the way toward the " released. Again DO

### EARTH

By James F. Lovelock

system. The commander turns to his

with an atmosphere we can breathe " Submeters of space. The device devel-

There's nothing unusual about finding some surprises when a new invention Earth so a planse in afver

the power to control as own habital needed a name to match # William

Golding the reveist suggested Gars the needed a collaborator to put some flesh. ento the bare bones of theory I was in deed tortunate to hims Junn Marquille help

The endence for Galais existence ranges all the way from astronomy to

This release some questions. Why happing Why aren't we now borking? The arrawer is

and on the reflection and emission of has scarcely varied from what it is today The ice ages have affected only the

and lower 15 percent of the planet's

by apprident to maintain a constant climate. To have done this for 3.5 billion.

crom We might expect therefore that is

enormous changes. It seems perverse to

Life uses the atmosphere of its planet Methans and provide are present in large What is the function of a gas such as

these and other gases undergo in relation scannon after all, to study the mechpurpose or design. But if for the sake of



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# HER APPARENT

### LIFE By Dr. Bernard Dixon

acquired characterisacs may be acquired after all. Certain a shaftes developed during a person of lifetime may be passed on to offspring, as a claimed by the lifetime his dogst Jenn Lumarick but vigorously imputated by both early and present-day followers of Charles Carven.

Their bod sissention which clashes valuely with a control linear of immodern biology is mode by the spain settlement biology is mode by the spain settlement bod published by the spain settlement by the spain settlement by the spain settlement by the spain which was a spain with water as 1,000 American Dr. Shade his so withered that Dr. Shade his so withered that Dr. Shade his so withered that Dr. Shade his so with settlement by the spain with spain settlement to continue the spain with spain settlement to continue and the Offician of Shade his spain settlement to continue and the Offician settlement

Many adherants of Lamackern were sen over by the opposition appears in their then by a scientific underprinting. John there is a scientific underprinting. John refluend to accept that faith beautiful exclusions in solitary waters, for country and provided underlying meeting mutations. But even since we beam officed the greater, therefore in germ colle jova and provided to the color yields beam impossible in the color of the color operation. There is small yell with the color of the color operation covalers. These smalls in create by incorporation the DAN code of agerm lacopposition the DAN code of agerm

genomors. Why then, two Sheele is book been indicated by such richar philosophers of counts as which richar philosophers of counts as which richard philosophers and the sum of the sum of

hearing largely because he bases his fleery on the lartisate abilities of the immunes expension Scientists have long been ballfacility the body's skill at generating anhibod est or legit at an almost endees beinge of foreign infludies. So when Steele others a plausable explanation—even when that evaluation in have be lartisated and the second of the

attractive and the context of minumology, after 18 year we and offer a minumology, after 18 year we and offer a minumology or a septonomial snaped offered in offered

synthesized.
There seem to be just two possible mechanisms at workhere. Foreign substances either instruct cells to flabricate particular antipodes for example.

hatter loss scornod romotaly beleenble similar floor 20 years ago when some hard floor 20 years ago when some hard floor 20 years ago when some hard floor ago when some hard floor ago year years ago when years ago wh

they might impart their patterns on those

shape of antibodies to produce), or they

neily teting them the complementary

presenting catalog of possibilities

For a white overgone was satisfied with the explication Bull her belogate beginnered that Burnel's theory didn't seally answer the central question of how immunological diversity appears in the first place. Where does that caralleg of information come from?

Interest and the first provides a fuscion desert for Shelp provides a fuscion desert for Shelp provides a fuscion desert for shelp provides and shelp explained for the development of the desert for shelp provides as a general class. Something a in hersted Could be that the advantations of one sharme—the instablic on this parameter of one sharme—the instablic on this parameter of the sharme—the instablic on this parameter of the sharme—the instablic on the sharp of the succeptance in the the DNA passed stong to the neal generator?

Should believe that this is provisely what

passed storing to the need generation? States balleved that the is procisely what happens Cells are selected, as Burnet suggests. but then the selevent internation in them is states formed into the arms is 1944. How the socialist States is that a vice portram the less of finanting the coded data. Whose centerly detending genetic measurables almost good than the protraments and the states of the measurables almost good than the processor. As it is a state of the state of the states of This is thindermentally a Lamarickian proposation. And this states of throward.

proposition And this straightforward predictions that can be tested which is exactly what State is doing After a long and better battle to debunk Lamarckian beary Darwinsdo may now have to settle for a competence Of



the may been doon right after all

# SPACE

### By Brian Cill early

By Brian O Lea

nutries 20 106.8 a funcionaçuismo bombis septiced at a height of the elas ellipsis a slove in the president elas ellipsis a slove in the toppica and transfers socialed over an annea 60 slovenetre socialed over an annea 60 slovenetre socialed full stock sloves registered on neemingalish his wall over and the socialed side sloves business that the slovenetre slove in business that the slovenetre slove in the slove in those of the sloves away. A billion those is the slove of the sloves as a compliance bombi.

What claused it? Probably a small cornet or an extract comes furnied esteroid. The loose appliamention of claus and loe probably 60 malars across and weighing 100 000 tons, exploided in mildler with a potential for destaution for esceeding.

1 OCO felling Skylabs
The fear that the sort of thing will
occur again has become a mainstal
formula scasore fiction. (Histal sous)

formula science liction. I Julies justissiem the more Moscor or the offer apparetal TV movie about a cornel that explodes over Plocarini Ji has a fact however, and a social sector between page of a fact or section to the large page of a fact or more place of the pl

membasic state mass whereas Aposto a sin example of addenied others was caused by the impact about 20 900 years up of an own end addenied 50 to 100 meles a worse and ownerful greened transfered houseand trans. This addenied has many others might have originated in the sectract but believe in the other of the country of country of country of the countr

Our oven less frequent very energetic collisions with Barth-replicationing saterands could have had a produced left-send out of the Beskeley hobel lesseed Louis Alvake and this covortex have found that some deep selling the covortex have found that some deep selling the covortex have found that some deep selling to the covortex have found that some deep selling to the covortex have found that some deep selling the covortex have found that some deep selling the covortex have found that some deep selling that the covortex have been selling to the

amounts of platnum and indum, suggesting influes of extratoriestral material. Some deposits containing 30 150 times the normal level of indium day to an event 65 million years ago percuely the time of the Centecomus/

issuing searcher. They suggest that the impact of a tenlution seems and the count if or both for the administration of the individual in Pulsette rock uncovered by the impact would gist on the saturation have for the yearst and the distribution worklowde. Always spectred. The impacting devices set personal the impacting devices as suppress photony thesis, and the expected but do pack on one yearst expected. The set of the personal production of the personal prod

expected bid ogical consequences match quite classify the extending observed in the pakinotological recents. Her about at the these Earth approaching detends and how bidly are see guith? We can wish out a good estimate by contibring the number and

estimate by combining the number and size of urating, on the moor with date on the 50 Earth sipproclames whose orbits at known. There are probably at least 100,000 such asteroids with dismeters onesist than 100 meters and weights of a



THE an activised display confessor

million tons or more. The true figures ma be half these estimates or double them but they are probably no butter of to. Clearly there are many close-passing.

It should come as no surprise that Earth approaching salested may be the thin parkeds of melanotise that land or Earth of Scientists who sludy changes in astronia or other tave concluded that nearly at processes we assent will over lady of the Earth, Henris, Mars or the moor Moor of these events will coour over the next 10 mellineautre.

ames we expect with devel tasify of the Earth, Neman whe moor. Most of before events set opposition of these events set oppositions are the need 10 million years. How this does not expect the Narpass' How many likes would be but, and how much many likes would be but, and how much property? Small melecribes are more commentational stage once (incre than a low

objection of educing in section with vision of the country of the

The workship commiss disapped on two others it regulate event might hope because data for departs of that some way scarce. Comet few bodies that work explained in the atmosphere may be more common than each bodies. So the possible that we could have sen integration events may few deceated.

Percental physical that skylot space.

land of the losses that would next to the impact of a one-folometer asteroid an event that befalls Earth every found thousand years or so. He envisioned devisitation for greater than we

### 

By Morton Schatzman

checkerboard pattern on the screen reversori deell'onne a second Floritories on Buth's scalp showed. expensioning a reaction called the visual

wate interested in Ruth's visual evoked clamed to see appartions that looked as appartitions did not have the insubstantial quality of ghosts or dreams. Futh said they people would Their feet were literally appointing would follow the conventation sometimes making relevant remarks only well. They never simply variated For Buth an American mother in her

expenence We asked her to create an appartion

her eyes. Buthhed acquired the ability to them. We had taught her to accept and control to test the effects of the appartors no Pluth a bear

While starre at the nettern Ruth magined an appartion of her seven yearold daughter Heather sitting on her lag 24 CMNI

dunce 15 cettern reversals was averaged

said. You've produced the appearance of

We reposted the experiment several times. When Ruth said her dauphter a feed blocked the checkerboard patient incompletely the vigual evoked response was induced but not eliminated. But is osolioscope showed her wastal evoked response was inhibited

The nice that the electrodes can tall you How do you make an appendon?" Peter



Tistop peying attention to everyfring looks like as most people do with their

And I produce the person Where did Ruth's brain intercept the when the americans not in the way? Who her raping, the light-sensitive surface at the electrical response of the retina to koht. eve. When she had an apparation cover

the brain's perebral cortex, where consciousness and will oncenses. We now evoked response to light had occurred after the light had been normally Next Ruth sat with earphones insterring

factsteps and sometimes of clothus appearage left a room. She also allogooth and an appention spoke satisfactority The circle Buth heard in our test are a

brain involved in hearing. Peter and I can I hear them?" Peter asked He showed

### THE ARTS

By Robert Silverberg

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Decovery are assured immortality by Gragg Press reports Gragg Solides authors, formans and book buyers with elegant bucknism bandings of uniform dosign stamped in red and gold. Amous of Gragg Miles—



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anything by modern masters of the genie

### THE ARTS

By Jonathan Rosenbaum

peculating on what moves of the future will be like, if shard to get with the same rotation of the changing needs of audiences. A chu cal part of this change can be defected in where we see moves. According to present signs: a searing partity clear that most of the films will be either in borrers or a thirt process.

homes or at disoponing malifi-Once inside a mall shippens have feel documes to make. The megazine Golden-S-Sense necently noted. "Comerciams helpt to a minimum so the published and flow along from slove to scrop propoled, as the divertipens up by malifi inviting." It is a close report that this several reconst moves block-busters—and others are can expect.

to see in the future.

By contrast the movin houses that traditionally cropped up near the centers of tower—public gathering places not unlike the municipal equations between adjacent for—are quality becaming nessable combians of another ex-

nostalgic ambilians of another are.
Shopping mails meanwhile are something virtually everywhere—making it is seents on the outsivirts of towers away.

faker during the past 25 years is said to be ker than 1 perceim. Althous half of the state business in the United States or cumently takes place in them. These 15,000 step and enclosed our please—alos known as places and

move life to come it seems probable that an even-more substantial portion will be represented by what we watch at home on wide equipment. The advent of cable TV and closed

croyst home value barrigs haves valuering and mail valueing together in a number of stifking ways. In recent years the U.S. Supreme Court has large ruled in supparate cases that mails are not public places where cateers can fleely congregate increase their values or hand out feelings. One mail expect. William

> em the fleudal castles of contemporary menca. By keeping seather out and keeping self always in the present — finor in the

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bolics as well as functions. From one point of vise the Star Test meets recently leasured at McDonard a functionage franchises can be seen as a pleasable as seriade of consumer poster power collaborating obody with stopping-rall missesting strategies. But moves and malts lookly are altrollaries critics that load to impose a certain.

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Shapping mail moves setting down in the valley of Mazar and building a dividual on the



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personal computer on the market tion picture, generated on you

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## UEO UPDATE

By James Obero

Landed UFO Base on Saturn Moon others amounce

readlines can be forced from the I riggerer's editoral offices in Florida to

Union Such sensational headlines would sustice—on Western velow ournalism

widestim the world, and in practice the some appears to briefly this as a safety articles on UFOs, on a Soviet logfoot" in

Kazantsevisione An Innoent-estronaut

Aleksey Zolotov a provincial university that the Tunovisia evolution in 1908 was a

auras, faithhealing, and altering the USSR's LPO cult Vladimir Azharha and

about anything - are considered highly credible by Western utologists when they appear in UFO magazines dealing with UFOs and passassychology

Russian scientists' and Teading Russian

as their predentals. Take for example, the 1978. Within hours after the story broke in the West sched been solved. The

IFC hydis in the USSR sushed to embrace



Zigelagned: Withous doubt, The sad, "It had all the features." And Admisha was more specific. "It my opinion, what was soon over Pedicoaredis was either a UFO, a carrier of high intelligence with crisw wind passengers, or it was a field of energy constable by such a UFO."

energy chated by such a UFO."
The bale of the physicina item sizes
("Croppled UFO Dobas Earth. July 1
1979) seems to have been simple
plagarism. Boshich claimed to have
spotted tragments of an allien space

godes vagyillers et al allem sputchet concling high above our planet, a dereiled has blev up exocity 22 week, ago last blearerber 6 Unformatielle Sechrich was obvioudly quoting from an American augusted that a natural moorlef had broken up and left debrie in orbit. When another, American scannet porhied dust if player — Both of hashiff i menonadit— Allegonal Erosaver proclament final if Allegonal Erosaver proclament final if and the second of the second of the second final processors.

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from a French book by Maurice Chalekan, published here as Gir Ancestors Caree Ayer Care Space in 1978. That book in itum was based on lisked space photos' selasarad in 1974 by the Coarrie Bestlerhood Associates a linge UPO out in Japan. The pictures were been during the industries are repentally

that most UFO groups in North America rejected (in 1969) Each of the participants in this froud added his own personal lougher to the story. The result was a family of

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Standing opposes the LBSR s LFO rumor factory is a lone Soviet official C 32 OM/I Vacims V Migulin, of the Academy of Sciences Innopheric Physics Laboratory He job petresially in to calling incoming regent and coordinally Sovert rebeator He agends much of insteme tying to need year the Russian public—a hopeless task. The case of the Petrosonisk UFO has been especially difficult for Dr Migulin life denses that if could have been all lives.

He agold of titles of indictine figigle below in precified Reusen palice—a more pull-fill that been expecially difficult for CF Migrain House before the fill could have been it line land to the secondly requisition for that is amounted fill related Some that is amounted fill related Some for the plus seconds in such difficult with restricting but severite muritor jumps bouch geomagnetic of sill-that roots and chemistra in each related in the sill-fill fill provides and the sill-fill fill of consistency to the sill-fill of the consistency that is a sill-fill fill consistency that is a sill-fill fill consistency that is a sill-fill fill consistency that is provided to the sill-fill fill fill that the sill-fill fill fill the sill-fill fill fill the sill-fill fill that the sill-fill that the sill-f

we must appreciate how or of characters really is. Ruse spelled to oddly—and ses meapelled by the America few people even by to each movement qualitations give the

Soviet observatories
 had monitored
 alien radio signals, and
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 track ascending UFOs had pinpointed their origin Titan, a moon of Saturn 9

impression that an entire generation of Top Resistan objections intriding furniosabling to the sailing of UPDs. Retinanties that the tabloads are only recycling the same stortful of obscura Resistan UPD entire transition and time Resistan UPD entire transition and the headiness scream about another Earth-freiding in evention than Miscowi-

Earth-thicking revelation from Mocow Charces are self have seen those rishs somewhere before Back on the sade of the hot Curtain Framework of LEOs proofed over the last

glough ricorn showing, we make a billy futly. Or maybe the hundreds of UFO discreting on heard don't had yahow what have channed close. That is the suppose to the common the common that had been subjected at the NSA Ahma Research Center near Sen Francisco Harnes, subhor of Oberening UFOs (Mellouri Hall. Change, 1975) is a specialist in visual parcection and apprentic consultant to parcection and apprentic consultant to a Pleasureura Research Organisation .
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The similarity of the drawings: "Haines believed." suggests that hese participants had a stereotyped mags of what a UFO in suppressed to locklinks. Amout everyone has seen a photograph or drawing of a UFO at some time and the memory strongly misunous subsequent.

memory arrangly influences absolutes for Controlly.

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## CONTINUUM

### MUTILATION AMADMES

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-Mark Toronto

### BIO-SLIMMING

UNDERWATER RAFFIC JAMS





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-Angrymous



### CONTINUUM

### FIREWHEEL

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### WOMEN AT ZERO

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o operate equipment and which doors call for new criticals when missed special oams fly How about appeasones Madam's orbital boudon? Leisure bras are in while

thes are out. This is one of several dings reached by Brown surveying 22 femals estronaut applicants Women astronauts prefer a ara that offers light control with stretch to accommotate sensing effects and the

stretch to accommosens- g effects and the gher launch and land Gircles are to be left k on Earth. They restrict alter blood flow in the



Long har and grides are gravity free environme Plemoval of less and

Hersovel of leg and indersom hair is basically subural. Fermale responding to could tolerable sween tays of hair growth, affice, nalf would call for charing provisions on a 35-day mossion. Long flowing hair may back of place on space tief.

Long flowing her may be ut of place on space tiess, maybe get caught in scienice equipment or air locks ong hair has a tendency to ball has in zero g, as it does is swirming pool — Leonard Davic — Leonard Davic

> sacte man in that they ap their creator ' — Announces

### REUSABLE FILM

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serficial fito pressure of loay it -Abert Dosteyr, 1945



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### POLLUTION BANK

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### LAST LEAF

TALKING WHEELCHAIR Victors of perebral palsy

helpful new gadget is taking

and valumes, and can even



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mathematics is like 'not quite - Howard Patter

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PLIGHT OF THE PANDA





# WINNERS

Sports' emerging heroes reach pinnacles of power through science BY SUSAN MAZUR

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Bracking forcers for the

practice under cultivated compare controlled. Reaching forward for his first stratch he guarges the compare controlled to the first stratch he guarges the compare sed he included to deally New he is calculated easily New heir controlled to provide orders the water at the optimizer and the present of the stratch compared the greatest his compared the greatest his compared to compute weight compared to the compar

be is moving faster than anyone thought possible Computer swaning transcends mere strength leading a swemmer to achieve his full potential, says Robert



€We can surpass all physical limits Computer training enables us to see movement beyond human perception ®

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human movement," he

says. "The important thereon profession of the same special of dozen of helius of body help and body

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ner (left) are especial for estyletic excellence

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fons of beforer If is 'a hotstic approach intelligence that Clein gats first O'Rose is

utilizing psychology as well as physiology, izealous supporter of Clein's ideas, says

core," according to the Marrian Client, of the Human Performance Laboratory on Demark Laboratory Demar

sociology, and made

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prove athletes' "muscle memory" He be-

leves the attiete rises or falls on a kind of

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in athlatics. "However, the real impact of this shift to a more mental, systematic apThere are no sports that I know of where you are neally commissly involved. There are no threining sports 8 ports are trud more no truding sports. Sports are trud more no market memory. The proper response has to come from market memory becourse in the sport of the

make errived chooses. Beside lives a duply different postero. The ability to each text the suid state of the suid state

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tions for his persoular test.

The 4000 gives you a lot more information. Anel says "and it tells you how you re progressing. It will let you know if you re lazy or if you should by haster. It if even

diass for the recent. The Hillion hool chair. And claims is thriving about-outing 4000s in all its health choice so that trevelers can get per fect workputs though their compater can soles, no matter where they may be as Dani. The next tenter envisioned by Arek will be those dimensional computer small-bors of orificetic motion. Not exactly holiograms these images will be 3.0 years projected on a two-dimensional some tips computer generated engineering persectives, there et a mot the distance of the section there et a mot the distance of the sections.

v. Computer opinioral designmenting perpetitives in they will give the fusion of off the commissional program you'd really see go the fugure in 3 Custom opinioral programs of things fusional. And says "New well see to this in the new fusion, no openioral book of Number and the color grid range in a longitum to smaller the movements of an Opinioral champer We see wearing or total rank.

main in the held makers in collection about in Neuroll be allow to solve grift rink in holiogram to Neuroll be allowed in the collection of characters. We are working on that man America work may expense, appears most departation. Using above, a few features and defends haven to gotten them say. They prelet transmig tochringues that white new arrel as few day personny delik figures. The most peopolar emong these of the Copher machine, appreciation of Separation.

€The willingness to use new technologies and ideas represents the coming wave in coaching

. that many believe will soon bridge the gap between scientific needs and athletic habits.

The Cybex uses a sechraque called solvidates which means that the harder you push. Be those reliefance you reset, the arming your hand brough water The Skylab entires of the University of the University of the Skylab entires o

observations are found to the administration of the foundation of the New York and United Head Research of the Head R

Mike Swanders, Immer and physical therapestor "New York Natics leads the Cybec's fewberty and processor. We can self if it weekloars per mission or degrees per second and an article can work cut at all windows speed. We can calculate how many foot-potantial of longue are produced by a mission group. What is important is to got a losse line that service as the compansion level of an atthless is been health or son level of an atthless is been health or longue.

on the Cybex, companing body strength from session to session until he a rearched his base line. Then we know his sit. Then

According to Saunders Cybex is doubly beneficial if offers physical advantages of awart, commodest training and the confidence of mind that even training is doing what it is exposed to do in the case of Hotes Copeland (or the Moreira." Saunders count was used the

Kincker State and State seasy. Two seed the Cybes to recrease the steering of certain muscles while we enhanced ladd his signify? supposing agreement we used recrease and selections and side second orbit to state years and selection of the second orbit to state processing the second orbit to state processing the second orbit to state processing the second orbit to second processing the second orbit to second orbit to expanse the selection second orbit to expanse the second orbit to expanse the second orbit to expanse the second orbit to expanse section or processing to the second orbit to expanse and orbit sections or the section or processing section orbit and orbit sections section orbit and orbit sections section orbit section section orbit section section orbit section sectio

meet modest advance in training year the Nazifue, a contexport that they are more types of weightfring insversest undo a migle unit. The athlete can perform all his exercises in one place without lear of dropping weights and without the need for sporters to lift and lower bathelis.

I don't believe in enything but the Neutrus says boung menager Deve Wolf I am aware of other sorts of machines but the Neutrus is the only one II use One means who write efficient is a law

One reason why upths affricted lag behard in using new learning methods. Saundess fining as that fley led file human garness pags, under the hamb of jappabatholing scientists who don't mailly case about their potterns. If intromation from scientistic testing could be made main introligible of affrices. Saunders believes made would use if "it is, after all not the computer that close the work. The modes butter.

that information could restly help different or 4 could just help some obtoler publish articles in journals that few people south articles in journals that few people south Borne attended and a south and about new method in tall hardweet find observing in diselled. Flyad dain jobiewe Analis system in possible states Miso O Shea owner of this New York Sports Typining helblyin Knystem States Kettly cris of O Shea suthinosa, adds states kettly cris of O Shea suthinosa. Adds states for the supposable. Most of the findings in states as the popular to did the findings in states as the popular to did the findings in states as the popular to did the findings in states as the popular to the states.

"Thirties is hopeware. Most of the findings in my event could have been clashed by simply watching movement with the object oy. Alei countes that Keily and offer less than the countes that Keily and offer less than the counter that the counter of the counter than the counter of the counter than the counter all can be even to offer the counter all can be concerned to compose the discars over the counter that the cause in fact the machines can be mon stay developing for an offerer.

or won a Pan-American Games gold medal out while still a teen-ager then captured an

# VODKAGROSE'S



FICTION She really was a nice little girl, but she sure knew how to burn a guy up

BY STEPHEN KING addy i'm tred "the #1" now and these cross streets tle dirl in the preen were both darker and less populated, but that was what

blouse said fretfully He was a big broadracket and nondescript brown ing up Third Averue in New

He looked at her and saw. York. People with no money. how pale her face was These were dark circles under her dicopped into the sidewalls. he clich t know how long he shoulder and saw the green, who had come to the require could go on like this. He was car was a little closes and the. Thursday night counseling find fool and Charlo was no hieroous sweat began to run session and then begun to talk It was five-thirty in the after-little faster. If they knew how how Ernest Hamingway had noon, and Third Avenue was little of the push he actually committed suicide And on the clopped. They were crossing. had left they might by to take Streets in the upper Sixture. Item night twee sind new

he was afraid of. His arm was cetting tired. getting close again There was and he switched Charle to the other one. He snatched another look behind, and the green car was still those still Andrew MoGee no longer had paging them, about helf a lan account at the Chemical Alblock behind. There were two . lied Bank of New York, not permen in the front seat and, he sonal checking not business thought a third in the back What do we do now? No money That was maybe arr and that was when he know his shoulder and the green car - the biggest problem, after the - they really meent to bring the sale at II there, creating along actual fact of the men in the frameser down this sine. Hart Otean car You couldn't do any- off of that really been only five fring with no money in New and a hell froum son?

But moutre there was a tride disappeared in New York. They left Just one little tickle. It had been nearly a week since the He looked back over his man at Confidence Associates down his back and his arms a with an earn palmeras about

He had gone into the bank at

noon because his radar had

been pletted-that funny-



PAINTING BY GOTTERIED HELNWEIN

say out, his arm casually around the presuccidal man's aboulders. Andy had given him a push. Now bitlerly he hoped it had been warthit. Bocasa's il looked very much as if he and Charlie were going to be the

ones to pay

One title tooks, he prayed That's all
God, ast one lattle trickle. Enough to get me
and Chante out of the year.

They were coming up on Seventierh
Stroot. The light was against them. Tristle.

was pouring across and pediathrish sensibuilding up at the corner in a temporary buttlereck. And suddenly he knew this was whate the main in the grean car would take them. Alwe if they could, of course, but it is looked like trouble—well they had probtably been behald on Charle, too. Marke they don't may send as after

areymore Maytre they've chanted to post maintain the status quo What do you do with a fasely oquation? Erase it from the

beauti He would have to try for that tookle was just nothing else

the corner Across the way point reach held stadily and secretargly external He toleked tack. The green car hald stopped The curtisated drops gornel and their man in business such golf out. They were young sent smooth-cheeled They looked considerably feedbar than Andry McGoe Hot. He began abowing his way through the utigor of patiesterals he only searchings.

Hey men—

Please master you're stepping on my dog — Then Andy sew a vacant cata "East Tast" he yelled tagging mostly with he too bond

A women near the back of the crowd at the corner screamed and then people begin to scatter. Andy opened the calon back door and

Andy opened the cabs back door and harded Charles in He direct in after her "LaGuandast Seop on it, he said Hold if oatibbe Police!"

the value, and Andy pushed—very gonly in A degger of pern seas planted squarely in the perfer of his forehead and then quickly of withstawn, learning a votage focus of pere.

from sleeping on your neck.
They re after that black guy in the
clascleared cap the said to the cabbre.
"Aght" the driver said pulling severely.

Avoly loosed back line two standing aloos at the curb. The pedestrians who had been with from forester, by Septer King, Coping

OWN

wanted nothing to do with these. One of the two men took a water-taken from the bett and began to speak more. Then they were one the That black guy the driver sand, whaddy do? Hob a lopor store or some to use their?

e the That black guy the driver size.

"wheddy do? Rob a lopur store or some star bring you thrist?"

I don't know Andy said fryng to thrist best og on within how to get the most alleth out of this caboliver for the least push. Had

would have to assume they had. But they wouldn't want to go to the city or state-caps and they would be surprised and scrambling for a while at least

and they would be surprised and sotam bling for a white at least. They reall abunch of univers the blacks in this city. The driver stad. Don't listing. I if

till you."
Cherke was going to sleep. Andylook olf es corduroyjacket folded it and slipped it inder he head he had beguntofeel after.

tope if he could play this right it might in passibly work. It is changed my mind. Andy said in

61'm going to give you a five-hundred-dollar bill

to take me and my daughter to Albany Okay?" Andy stuck the bill

into the cabbie shand, and as the cabbie looked at it, Andy pushed . . hard 9

Where? The driver stared at him in the roar way manor. Man I can I take a lese to Albany You out of your mind?
Andy pulled out his wallet which contained a smalle dollar bill. He franked God

subliffered partition and to way to conflict to former except through a microy set Open centact always made a case to such the had been unable to figure out whether had was a psychological thing or out and right new it was intrinsimal im going to gave you a live hundred.

Andy suck the bill into the cabbles in hard and as the cabble looked down at a findly pushed and pushed hear for a tember second he wis afried it wasn't gog gorg to work that there was smply not jet and he had supped the boddom in jet and he had supped the boddom.

the nonexistent black man in the check and cap Then the feeing came - as always ac The deal code only if you don't mention to my list by if any law of line and wo weeks when is been welf me. She has to be back with his morber bornores encounting. Westerdon rights the cabble said. "I have supposed to fight he will be a supposed to fight and the will be a supposed to the suppo

take on weight and his bowels locked in

was going to throw up or die. For that

wast old when he overweed a

Gee, misser I dign t know-

snow. In fact, Andy dight know he had made the story up on the sour of the moment, and now it seemed to be headed straight down a blind alley Most of it wis pure exhaustion.

straight down a blind alley Most of it wiss pure exhaustion.

Five hundred bucks to skip a plane ride. The driver mused.

"It worth a to me." Andy said and he gave one last little shove. In a very quest vice ageating almost into the cabbles ear he added. And a quoti to be with it.

Ustern the chiver said in a dreamy voice. I and turnin down no live hundred dollars. Don't left me. If tell you.

Okay Analy said setting back The captimer was satisfied his worst in worder ing shoot Andy's half bashed alony his wash, avaidening what a seven year old gril was dong wisting his "alone" when the weeks in October with school in He wash wondering about the fact that pather or them had sometimes as overhead large.

been positive.

Now Andy would pay the price.

Andy set with his head back and his eyer closed. The headache was coming coming is necessarily as a inderheal black horse in a funeral parade. He could hea

Tout that about Charle He was thirty four years old Unit led year he had been an instruction of English at Harrison State College in Other Harrison was a sleepy little college lown. Good old Harri son, the very frast of mat America, Good man, the very frast of mat America, Good

That that that Piderlass black to a coming an coming on and coming of behold a black horse.

And when

- Andy slept of And sumembered

> Or Wantess. He was for and balding and had all least one rather bosons habit. We ne going to give each of you twelve

young ladas and gerdinens an rejection in a sail, shreading a cogaritier eith the sails, shreading a cogaritier eith the sails, shreading a cogaritier properties of the sail of the sail

case sepervation to tarty eight not a teloung the injection. Analy had been put onto the experiment by Quincey Temporit, the fellow he had corned within college Quincey knew had had yet framed shaut a speck two hide would you feel about a speck two hundred? Quincey asked.

Andy trushed long, dark has away from his green syes and girmed. Which men's room do i set up my concession rif?

No it's a paych experiment. Quincey and. Being run by the Mad Discler though Be extrest.

Who be?

Hen Wanters, Torto Heap big medicine
man in um psych department

Who be?

Who do live nell him the Mart Doctor?

Why do they call him the Mad Doctor?
Wall Councey artivered their a mit man and a Barner man both it between their the between the smill exactly being year-holmat with live their duty. "Oh: "Andy said mystered Wallon his wests very freck little minious."

See the guy who shram the people in Dr. Cyssiges. You ever see that receive? Andy who was a little-thow addict, had indeed seen it and herful consaler governd. but he want is sure he wartest to perception in any opportients must by a professor who was classified as (4) and imma and (b) a Mad Doctor. They en not trying to shrafe people are.

Insyl\* for assets
Ourscoy laughted hearthy. No that's
shotly for the apocial-effects people who
work on the 8 hence persures. The sand
The psych department has been testing a
series of low-grade helicurrogers. They is
working with shell of mellingense Service.

Net CIA Dia or NSA Demony said.
Love profile than any of them Have you eet heard of an outil called the Stop?
Maybe in a Bundlay supplement.
Quincey if his pipe. These things work in about the same way all across the hand. In seal Prophylana chamilton.

physics, biology even the seciclegy boys get some of herfolding gross. Derlain programs are subsestioned by the government. What does our intelligence branch want with low-grode hallouropers of how brows? I don'tly you don't Probably they got I state. But the record links could in the second programs of the could in the second programs.



MRS. MARY BOBO is the most special person in Lynchburg, Tennessee. This July, she's more special than ever.

Mrs. Bobo has run the boarding house in town since 1908. And though she's never served a drop of whiskey in it, she's been a friend of our distillery every one of those

years. This year, Miss Mary will be 99 years old. Everyone at the distillery will be sending her a card. If you're a friend of Jack Daniel's, we hone you might like

to send her one too.



DROP A BY DROP

Tennessee Whiskey • 30 Proof • Distilled and Bottled by Jack Daniel Distillery
Lem Mattow, Prop. Inc., Route 1, Lynchburg (Pop. 361), Tennessee 37332
of in the National Register of Historie Physics for the United States Government.

To sell the American Dream. Madison Avenue charts new frontiers in consumer science

you don't believe it, when you get many commercials do you hear on the radio? The American Dream pass the newsstand? And you haven't even

Two thousand messages a day! Word mesor who we'd like to be. Delivered by messengers (Joe DiMeggio O J Simpson Farrah been determined - and there are statistics to prove if - we great with beeng on the shade

But most of us remain unaware that, as the ineurophysiologist, is one of the most renoise of competing messages swells to an spected scientists known to be working with

essence rearly 2,000 a day better - uproar the content of advertising is increas-Specialists in a broad range of scientific disopines are proteing our attrudes, our bodies.

Marketing research healtheave centered on to work? How many messages grab you as you one basic question. What does the consumer want? That foous is now deepening. The conuses have been designed to posetrate the geneors in our breins and to teo social values Advertising campaign stretegies in the Exphises will reflect the discoveres of laborato are learning more about the consumer than

We all know that adsidon't rust spring full- or produce "a purchasing response" but blown from the brows of apency "creatives" many are trying. Dr. Sidney Weinstein, e.

# **PSYCHOGRAPHICS**

BY BIBI WEIN



advertisers today Dr Weinstein plains his others moonlight out of university and days erroent lucides

By determining the proportion of beta waves to gipha waves that a person rocks-Weinstein explains "one can measure the degree to which the individual has been purchasing the product. Weinstein moretons has subjects on an EEG oscilloand the comparative intensity of lath and right-perebral hemisphere response notes attention to verbal concepts. With

such data. Wemstein begans to shape a ious elements of an advertisement Which elements are working? Who is the 30 do, at about two trivis the cost? Wen-Among Wenstein's charts are all three loods, beverages connects cars and appliances. Most cherts remain publishsecrety although he can funderstand why When asked to appear on the popular Ty show 20/20. Weenstein rought premise on sgot on 20/20 probably goes for one

more eleborary consumer needles are derived from examing methods that when minutely detailed evaluations Psychographic studies, also known as thousands of people and are then sub-

enough different ways, basic feelings will The most ambitious psychographic

pages for women 70 for mon-worn

"I don't know what people were consum ing before these studies began in the late Somes, but now they are consuming les-

BUTS Stannard mounts latest gadgets. Some of these gadoxts are currie any better People are buying wishes and promises. Selling the technical aseffective than selling the amasher 'fist what we keep hearing in our data is that thing other observers have foliad. We are some form by about 50 percent of market-

The same ponciples that Moskawitz used to come up with the ideal potato chip are now being refined by to optimize the image of

political candidates.9 tore, advertisers need to know what we tree and how in datast the fragments of into pries as Saymour Banks, media you president of Leo Burrett puts 4. But

hanny housewife. The organization man ken down into very small but profitable daily in the suburbs. Soap manufacturers may seek "a market opportunity" for still Establishmo a market for a new product

ducts color texture, and smell to its price

and packaging must be considered Psychophysicist Howard Moskowiz uses computer modeling to cleare a curck may

scally varying several incredients, getting When we come up with is an actual per consumer acceptance by making the pop with the oppmum amount of perfume" or for that matter chacover the sergory

president of Weston Group and formerly an cewis them, not by me sitting here in my Sensory engineering currently has greater impact in advertising than bean wave studies because it is more supple studies have indicated only activation and "energy" but more detain from the

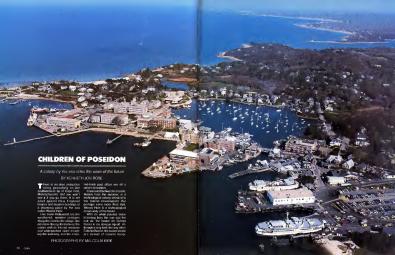
ucts for sampling by selected targets in the

Product quakties, says Jack Level

Warrstein feets their use will grow because they fulfil a fundamental need of trust your interview date. You don't need question of morality. the chances are you re not going to get the truth. People

To avonse norwerbal stanuts Dr. Weer within 300 millisecords of a somulus of human emotions. Feelings, he says love wave or a hate wave, but in a more peneral connectative sense. We could tell wave is positive slightly positive neutral shirity negative or negative its compl-

The so point likes to date a revected study than traditional research. A year or so you





shades and rocking chairs. Instead, there one scientist said. This is the clack to be A byarded college type is reading a list. You the channel that connects fiel Pond of numbers to his associate sitting beside - with Great Harbor Go past the hippies in the sount Sigma 7. The statebox gathered their ten years and grantly directors seeled in compare the makeup of fash populations by the doorway and you becan to under-

firth available for food in the years ahead Acorber congram digests class taken page the past 30 years to plot the relationship wallfish There is a rumble of leughter in one between charges in the temperature of the corner. A group of men and women with sex's surface and short-term climate fluo-some sort of exciso manne animal printed bustons. What finally emerges is a clearer. In link on the backs of their shirts are chalunderstanding of the overall climatological I ling about the last fish tow in the Pacific nenue. Neorby a third procesm formulates. data about the different layers of the earth's stormach?" somebody at the counter interpr - information that could prove in- shouts A man with furly white hair puts valuable to the fieldpino science of earth-Like the Computer Center, Woods Holers nearby, and says, "Your sections of the a straton mix of ultrampdern science and penkaryon were lowery. He accidentally

familiar drawn, from communityons. Not then, choose his displan to the floor instead of kind of Loution might be the vogue of the impromised strudges, there are light perfuture, and this waterside village could be - oil scribblings of a complex erolecule February the wilder serves as a summer

ferryboats that travel to the islands of Martha's Wneyard and Nerbucket immedistrily to the south ess. The apportunity to study at this center is as sought after by most scientists and graduate students as is tenure at the Instatute for Advanced Study in Penceton, or

Walk mip Frahmonger's Cafe, the local stand that Woods Hole more than a reshertand fan shorts is casually talking to his friends about the effects of chionne on lar-

"the counted how many respects in that down his avocado-and-Muenater sundwich, leans over to a woman sitting Woods Hole's deceptiveness less in its. the Woods Hole community was evident a gund that the restaurant was permitting

resort for the affluent and as a port for the people who had no money to set there true wards. She glosed the place down. Imme-To the rest of the world, Woods Hole is to pay off the restaurant's debt and bought synonymous with sownow of the Olympian a new Fishmonoer's Carle across the street Just apposite Rishmonger's squeezed stands the Marine Biological Laboratory IMBL) This cluster of concrete and old

Doesn protograf Joe! Go!dmen inspecia phytomembership in Workington, DC's Cownos | planton curaires (apper int ), fish samples CUID. "If you've got to study the ocean," need in set itsen for policion enebus (right).



red-book buildings stitzels top-notion buildings stitzels for notion buildings the way Switzerford attents before. At listel count, amen 30 Notion because and an 40 Notion buildings of once winners from passed through to proceed a count of tuberculosis wished at MBL. So did I have Parkey the Resistant physiologist shirt conditioned diogs to drop, so did James Wistons one of the researcher without her folker conditioned doings to drop, so did James Wistons one of the passed of the passed

Exerci Spengy, who wen the 1007 Noodring for the observery of various of and the regional section of the section of the explanation of health reside comments of a financing splenows for the comments of concern fine or the section of the section of concern fine or the section beginn when the section of the section beginn when when the collection of the section of the sect

clossifi seem discouraged. Paggie have always been skrajical of his theories unatheyre proved certex. Theories are a specially at the Captin Kidd a taxen neerby which serves the same communal purpose as Frahmenger's but for a younger generation of sciences. The decorr—out Saded life provinces on the serves of the serves of the serves.

Saltons are red.

During the summer the ball is usually astrood with college vectorions from the farecast report basechea who lates to the barring Jacobs while downing a fee been But dispersed among the see of angles barrings are powers are powers and the salton persons are powers and the salton persons are powers.

For the rup the steet ear the Wandi Hole colorange public immunities the member of the colorange public immunities and the second to the colorange of the second colorange of the second colorange of the colorange of the second colorange of the colo

elemental drift.

Jost Goldman at WHOI is dispartment of bological operinography is investigating with chrising plants of the cosen called syloplashion subset in their shared of 1 by regulating certain things like mountains. Goldman is which in the mountains. Goldman is which in the mountains.

SE DANS

mass outures of eigae. Potential uses. Goldman thinks, could be anything from protein packed seaburgers to the dovelprotein and important energy source haveging and fermenting algue to make

Like the MBL. Woods Hole Oceano graphs is not without its alumn. Marky so entails serve there on one advisory boom after another. Robert A. Frasch for example, left a position at WHCI to become the

Shorter of NASA.

Scence et Woods Hole actually began eth Spenor Fullarion Baied an absistant eth Spenore Fullarion Baied an absistant accretary to the Smithonner Institution, activated the Smithonner Institution, activated the Capabilders of Language along the place to desire, suppossed with the time vallage, the suppossed with the time vallage, the suppossed with the time value of the Capabilders and the Capabilders and

6/f a creature with three legs landed in the village of Woods Mole and wanted

long as its science was reproducible, onbody would care \*

river affluent. The combined affect creater altruge diversity of marine forms that furner

emple approximate for study. What sees once a percental community of emman and the emmer ground and a filled with emman and the emmer ground and a filled with to the description of the emman and the emman there are considerable. The case a prevailed the there are considerable in the emman and prevailed the substantial and the considerable study and substantially symbolic 50 percent for older reconstitutes remember and large about a suspendance of the emman and the emman and published the emman and the emman and published the emman and the emman and published the emman and pu

The large Victorian structure where Band not worked has fong since been farn own linds place pushed against the war in edge as the corner of Waser and Alaroos steeds, is a blocky laboratory allest the Northeast Februre Center of the stonal Manna Fisheries Service. Local endents, though is simply call of the

actifisestem. Alloado is galfisced at final facility excepting from the effect of policity on the first of policity on the first of the size and life his point on the first of the first of the final first of the final first of the final first of the fi

ring the world's oceans. That kind of record has put the Rishenes in one of the bast positionarity were the take of the oceans and of the fairing industry. Secause of the increased costs of energy Clabson sees is revelution occurring in manne contrience and management within the next 20 of 30 years. "I will obt invention other instants to come to the occurry, and of the his stay." Frongy fairing not visiters.

fight his sign. Foreign fairly in our water the arroad contractly declare. This is good need for the U.S. always may be a seen as present the sign of the supplier Julies when as present could comsure tracking and ampring operating amortiom the cooless vine votal requisit experimental to exact some contraction and the seen and our venturally sound way. Seen now we have estimated of all the Closain Distance declared of all the Closain Distance declared. If seems possible that these estimates will be comered account as our sections of Knothice.

sortie restator the U.S. Decognition control entators to U.S. Decognition to the product of the

plement each other very well
What do the scentrals of Woods I
with their time when they're not but
is seeing the world's oceane? Many
we their off hours saling or felling with

ness. Others are nonlis or musicions ing techniques are applied to tomatoes and bears. "Whatever knowledge I have based on my job," he says, "is transferred

beliet denoing in the drawings displayed open in the interpersonal relationships is not so at other seasable communities, wilas the tide. One accomprised. The creature system But not in Woods Hole The obsect.

black door on leashes, and even people

2 Woods Hales one also fack that they may be deluding themselves. The szanidents. Wait for the drawbridge, separating

On the underside of the bridge, sprayed in orange pant, are the words set out or COST HOLE, TOURISTS GO HOME. The work of cosmiss. The paint is faded as if it had

A few years ago Emparor Hiroheo of more historical spots in the area, one of Part of the problem les with Woods

guite dependent on the scientific institu-Nevertheless, with all of its political influ-

ence program has been a thorn in Felschool of its kind in the country the classes

refleciogy, and not bird witching. There is test-table environments. They are normal

The tensions and hidden jestifusion were told to bring in pactures of animals

The exposure to science comes natusion between neighbors. We have our problems as everyone also does. said one Woods Hote researcher "That's the one

halbes come with the species "DO



Would you fake profer the American plan, the European plan, or



RICTION

Freud had to solve the problem – or he d' shrink into the dream cube

SIGMUND In Space

EY BAPRY N. MALZHERG

The state of the state

of demonstration and selected of the control and contr

PAINTING BY JOHN BER

som. Here in the last hearty fifth certary, seekes exportation and tooline the Whitporty VI is on a disrigence meson for the theter-burgenched Megase. The valved the overwise from a classific of 36 many light the property from feeting the additional of 36 many light the property from the property from the property from the property for the property from the common networks would provide all Olicoses, that was booken the property from the other three would provide an Olicoses, that was booken the property from the other three would provide an open of the property from the color of the property from the other three would provide an open of the property from the other three would provide an open of the property from the other property from the property from the

size additionated allyone at a rotation flashing preservation.

Final driving the rotation flashing the rotation and the final driving the rotation and the rot

from these varieties do copy in harvows they will only believe them could be the time of the copy in the copy of t

This invegit imposit firm lowership in each which is so use the communication of all death to derive the control of the contro

timbs, while wating for the captain, of his old mists Adde and Jung.

Doubriess that missistile pair hove already been summoned and false do this case. There is girm satisfaction in knowing this But he would have hoped to have been econstructed more often. Two jobs in the twenty-first, thisse in the twenty-second box.

lose that disease on Yesus, and now this Not good it all Well, series inothing to be done about that Hele he is, and hele the responsibility for the mession in gloses in the caption nation is diseased in fallingue but we

stated orders to comply with Freuid a procedure. The administrators commod control the late of the respons bet fleey can abord; it hereby the state of the responsibility in light-year-distant incondusty beam. The organs invave the He dist across from Freuid, his hands on his kinses, and white stange of him carriedly, the egyptic of their order fleed's given. We re giving to their own those Vegans, The Subyer unprompted, "You know that, of course." "Organism Freuid sign something to the

prompted. "You know that, of course"
"Of occurse "Fraud says anymptifished;"
They as a green humanoid race, permitted with the potential for technological advance. They as hookin, and barbonic. Was as going to wipe them out white we still have time. I have plans, "the oppara says shakey" this wisnomous plans."
"Of occurse you do." Fraud says the public.

on the organisms what he hopes reservibles a gesture of serenty. Why do you feel you must destroy the Vegano?"
"Because otherwise in a generation they it have spaceships and atomic de-

The last time I had an assignment was in the early twenty-second century the madman on Venus who

 thought he was a vine and threatened to cut off the dome respirators.

I dydn't handle that too well 9

were and will desting us. "The capital mays." "Den I warry in completing in control fire in highly issued may. If you have made the capabile reports prepared by the administrators. Of occurse these six no Wegams at all, there are fires six on beside planes and size in fire certains of space process, like has never been found on these planets. Tende you're firefaced. Penut seen (586) I have a

question if I might ask if.

Please ask if, the captain says
horsely 1 am prepared to deal with any
questions.

That's an important quality to be sure.

Now what if it happened to be." Freud says gardy, that there are no Vegans?
"There are Vegans-Several hundred milison of them. This going to wipe them but.
"Yes, was, but what if there aren?" Just to

"Yours just his the rest of them," the capitain says, his tace metring. You diamned by you reconstruct. You're just like the east Don't harror fire. I'm going to save the unknown Now have to get book to my bridge. I must prepare for the deadily cancer-cause of water entire to exchange or the same than the sam

could encircle us at any moment."

'How long have you felt this way? Freud assays inactly as the caption statics out. Freud aght and stube his caption in the deale and then stating at the diploma for a white.

and then stated at his diploms for a whole Then he summons the navigator. The resupport shows considerably less affect than the copfain but, after some gontle proteing, descloses then has mother is about the who, allowed wealth in or of the werthistions and whispering thought so him of the most diagnosting share. He has all-

of the most disputing ratios. He has a way taked and leaded no mother and shall as why be easily all as why be easily and the control. But the same of the same of

dates they have turned to be sell protices Herem the freat data stome protesional coapest—they are impressed that the administrators would send enrother famous psychostralyst as reconstruct to a purmand that veying 1 Tay topo that he does not be the first and successful only world tayether and successful only half on mass consistences that the selfmentations explained world to the proting of the self-protection of the self-proting of the self-protection of the self-protecti

and said that they would sond a the prince the stephen a medical cools in their place. Better a transfer door like their place and lights a action. Cligar the symptoms were down and their place and their place. Their made to their probably a consequence of the meson medit Long probably a consequence of the meson medit Long probable. The symptomic place and their p

y permis it avoid be wateful and cruel to abort the mission on other lots and the mission on other lots and the mission of the lots and the properties of the mission of the mission ing. The welfer of constitution now stars and discommodes. Froud adjusts the angle of the windows so that he can evade them Space for an abort/welfaceto them Space for an abort/welfaceto in the logic of as affect upon the calculation of the leverifierth but seems of the calculation.

thinks. The administrators have obviously tried to routinize the missions just as with the reconstructions they have routinized a qualified immortality. But in neither case

cap. His aspect is impatient but restrained. Like all on board he has been given the 7s. ONN. ESSAY

A celebrated author relives the inspiration that gave birth to his epic tale of power and paradox

use bogon with a concept whose mostly unfleshed images took shape across about as years of research and one and a half years of witing. The story was all in my head until it appeared on paper as it types of out.

How did dowle?

Tocchewood or a must be released.

Tocchewood of a must be research

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Personal ediservation has common me that in the power arres of politics soorcerus and in their logical consisquence, was people tend to give one overy decision making capacity to an leader who can wrap himself in the myth fathful of the society. Her did is Chaushild duit Fornich Decembrillated.

Shinn dd it Musechn dd it My Tavonte examples are John F Kernedy and George Pation Bidhilities Bernedy and George Pation Bidhilities Bernedy and George Pation Bidhilities pation consciously assuming bigger han-life appearance. But the moscascust observation revisits that neithe was bigger than life. Each had ou common burnays admert—clay test.

how automable those people n

BUNE DUNE CENIEGIO

BY FRANK HERBERT



pour to be. Beneath the here is facada you will find a human being who makes human metakes. Enormous problems arres when human metakes are made on the grand sorte available to a superhero.

And sometimes you can into enother

And sometimes you run into enother problem it is demonstrable that power structures tend to attract people who went power for the sake of power and that a significant properties of such people are instell

ingact—in a word institle.

That was the beginning Heroes are pentil superheroes are a catestrophic the matabas of superheroes involve too.

The metabolis of superferoes insolve Ioo many of us in Casader It is the systems betreefees that I see an disragation displacement is a desety word Systems originate with historial creation of the state of the sta

pair have on they organize?

An of the encryptables the staff of high drawn of deletrial entirely at the in the characteristic and the in the characteristic and the interest of the interest

CHANA OFFICE.

As I fill with or OPPE to Supering White I first concept was self-fluid in Inmany I leave to Primotion Cengen to work as a many I leave to Primotion Cengen to work as a many I leave to Primotion Cengen to work as a many I leave to Primotion Cengel I fill and other) a send or upon I find all sensely written newwal a proces about exceptional mitables, but my superineous consistent with a concept many in the account many to the many to find an a proposal found of the many to find an advantage of the conposal to select a find of them in the find of the conposal to select a find of them in the find of the conposal to select a find of the many to find an advantage to the fill selecting of a new

crusades. Our society after all operative on guilt, which often servee only to obscure as test workings and to periver to storous solutions. An advancien high can be just as addictive as any other lord of high Boology ancompasses a neel compent, however and the Florence propert flod my

planet I boold begin to see the thispe of a global problem no part of a separabel from any other accidal ecology political ecology economic ecology. His an open eriddel list Even albar all of the research and writing.

reactive transfer and characters and characters and characters and characters are the measuring suggest of phenomens. As make field of study rises out of this like a spirit rising from a witchia calcino the psychology of plasseary societies.

76 OMB

Out of all this came a protound reinsible bon of the original concepts in the beginning.] was just as ready as anyone to fall into step, so seek out the guilty and to pursar the senses even to become a leader Nothing. I felt would give me more grasticesco than riding the seared of yellow

leader Rollling. This would give me more graftsceno than inding the most of lyeldow parties of the first the did writing is that would inglift the did writing. Rouvaluation resed hearthing questions in you believe that exclusion, or devolution never ands short of death, the me socially has ever eightweed an absolute perinachit the aid in unaise are not created equal. If the aid in unaise are not created equal in

provided has been of death, their in south, the mean and a first of death, their in south, the mean and a first of the south the sea to branch are not created egal in the 1. below attempts to create some abstract equations or advantage or create some abstract equations or advantage or make a measure. Equal yarable and sepal deporturity and takes are should seek, but we deficial not opinion that humans administer the ideas and though the season of sepal actions a state of the season of th

You want absolute prediction? Then you want only today, and you react tomorrow You are the

ultimate conservative bu are trying to hold back movement in an

movement in an infinitely changing universe 9

there were planty of visible targets. In plethora of brind fiscentral and guilty op-portunem at which to aim points baths. But how do live get the weight What makes a Noort? White part do the mode palpin or creating the powerful? If a feeder ournout admit inspose, these interlates will. The redorm the same of the same of the redorm who same our head on the same our head on must be indeed.

Error the fugue in mase, the logue is judged many defends ways. Scraimble is judged many defends ways. Scraimble in there are they occes that do fanctal, dances ascund the invested in the record day thems and contrast in the record day thems and contrast in the mony dryten, and melody. From the moners what is along used in modulos the premary thems. In owners, the whole is premary thems.

what webstry mounted to the sould be all super's impose, controls that as held term upon hermatives and become breath to tem upon hermatives and become breath of the superior to the superior to the common hermatics, products of our technological voicitions, our human devenus and our human fears. "You can remain they suppriso to learn "You can remain they suppriso to learn "You can remain they suppriso to learn "I want to the supprison to the serior "You can remain they suppriso to learn "You can remain they were "You can remain the "You can remain the "You can remain the "You can remain th

that John Schoenherr one of the world's foremast wickfe cross and illustrators had been long in my head with the same images. Repete bed it diffects to believe the John and had no consultations one to be parting of the Disse flustrations, which follow the seasy I amount you that the parti-

we lose this decay I assume you that the partirigo were a senderful suppose to mis.
The Sandaukar appear like the weath
red decay of Dave. The Barrier parameter
red select and the send of
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What expectally pleases mo is to see the enterwoven therees, the suguetike relationshops of images that exactly riplay the way Durie took shape.

Davie tick stage.

As is an Eschler thrograph. I invalved impost with neutrinal terms that Jun 1 invalved impost with neutrinal terms that Jun 1 invalved impost with neutrinal persists or more than 1 invalved in a present that Juna 1 invalved in a present to a feet, does not be present to a feet, does not never to present the production of the does not never to a feet, does not never to a feet, does not never to a feet to a feet, does not never to a feet to a feet, does not never to a feet to a feet, and the production of the seed of the present that the present t

provided in a work of a country of the provided in the processing and country of the provided in the provided

you subdivide time and spirite each lang you subdivide time and spirite each lang divided contains intenty. But this could imply that you can cut across linear time open it like a riple fruit and see consequential connections. You

Productionalism and prevators once more. The fave must be in our sectorist of exprision. In languages, in special refunction of exprisions and inspirations and inspirations and inspirations and expressions of wheth convey implicit limits where no limits a small Paul Must Die. After all supply this time offer time throughout Dunie. Do you went absorbed presistency?

Then you want only today and you reject terraneow. You are the Usernale conservative. You are trying to hold back movement in an inflinity changing unriverse. The wint to be done motor stored us at 10 courses them are other themes and

togs interplajs in Davie and throughout the brings. Dame Messach performs a dissismension of thems. Chestwe of Davie or parise the number of themse interplaying it setupe however, to provide intheir allowers to the operations. That it is the potent of the display. You find your roam solutions. Don't book to me as your leader. Chasters are onliked individed but not the

terror that prevents all moverfiers loose. And when someone asks we you restorang a new cut, do what id lake had 1900.





## DUNE

Here the moon is your friend, the sun your enemy

#### BY FRANK HERBERT

Amikis — Dune — Cosern Plenet A wastelland where nothing lives except the spec and apparatum. Amike has special problems. Some build up across sor alsown thousand alderstored fastlands. blow up to seven hundred islamaters an hour the pressures of threat all across disputations of sealing the seven the season of the season

PAINTINGS BY JOHN SCHOENHERR

♦A basso voice rumbled. "The biggest mantrap in history Ts it not a great thing that I, the Baron, do??







The Sendanter selfer hereby. Bught server liverage and non-found the Employer's prison leaded Sendanter do not not sitter? they carry costs of singulates in their hear some enough to general server. But The Edward was growely and innectifying servers a server, but the server was provided and the server of the server of the server of the server of the of the top burden before the server of the server of the office of the server of serve



Accounts speed a gost norm - a new - was the air microme to the home per a new man speed a speed of the speed



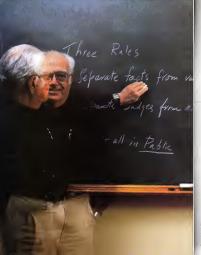
 Out of the haze came sandworms, a massed wall of them, each with troops of Framen riding to the attack?











A physicist who helped to master shock waves arouns that society needs better ways to deal with future shock while it still can

## INTERVIEW

# ARTHUR KANTROWITZ

opking ahead has always come naturally to Arthur Kanwith the problems of containing hot plasms in a toroidal magnetic field. The key to many fusion-power sphemes. It doesn't sion divides have been developed from his humble beginnings. but Kantrowitz was doing it in 1938, when the basic physics of

high-temperature gases has shaped much of Kantrowiti's career and has kept him at the outing edge of spence. After studying physics at Columbia University Kentyowitz were to Langley Field, Wignes, to study pleames for the National Advisory Committee for Aeronautos, which would later become NASA As World Will II dow to a close, he moved to Cornel to teach the engineering physics of superson offight. His research group there developed new ways to create and study shock wayes similar to

From 1965 until recently he directed the Avco Evereti Research Lisbonitory in Mississchusetts, which produced reently vehicles for ballistic missiles and the space program. Other projects included research on gas lasers and magnetohydrosynamic generalizes stream of hot gas. Working with his brother Adnan, a raymon, he

In the mid-1960s Kantrowitz proposed a new institution, the Science Court which he hoped would enable povernment officrails to base their decisions on the best possible technical judgments, arrived at through a public-adversary proceeding. "Case managers" would argue opposing views on such issues as reactor Today as a professor at Dartmouth and MIT, Kantrowitz con-

tinues to insist that society needs now ways to come to gross with asked him how one new idea, the Science Court is laring.



 Scientists must confess their annorance to peers because if they don't. they get stepped on. But outside the community many of them no longer feel bound by this rule of frankness .

Ome: In the years since you first proposed the Spience Court, we've seen the Office of Technology Assessment (OTA) public inquiry. Do you think existing institu-

Kantrowitz: I will be satisfied with the exist tendencies, such as Barry Commoner have as much credit: My as real experts. I say we lack something. When uninformed

Osses: What is the proper role of aspart Kantrowte: It's a irreted role but a visit

Arrong screenists there's one rule that

prescription so that others can exproduce

don't they got stopped on by their poors, at community of his peers he's no longer don't hold tem to c, and in fact with a little

public was to believe what it said not bevery hard to appoint balanced committees. harmine they take their reblesse oblige senously. Their committee on nuclear and alternative energy systems struggled for that was apparent the day it was ap-

As for the OTA, I was on a panel that notaded Daniel Da Smone, who was then OTAs deputy director it was billed as a debate on the Science Court proposal but separation facts, then Offs could mally begin

pert. As Warren Weaver price said exports are men intensively interested in X sometimes with a recognizably fanatio concentration of interest on X ... guite

Kentrowitz: For that I think we have to be grateful to those I call the cytical estab-

sons Barry Commoners, even Jane Fore that many young people are inspired to You yo got to find people who oppose

tets To have Kendal and Nermon Ras-

Geser. Some people have said that adver-Kentrowite. They go on informally at the

They say that 'scienatic objectivity' can't sion. "I'll give you the straight goods topigt I don't need to be cross meanined

Owey. Name an ourse that you district on as a case manager in a Science Court Kararowitz. The construction of a magnetchydrodynamic-power plant. I assert

ing a prior plant for at least five years. maybe ten. I would like to advance my as the DOE I wouldn't have all the answers

Greet: It sounds challenging, but could a offer the same satisfaction as being Barry officiality for the New Yorker audience? Kanfrowitz And showing how tharmority-

spend sewerly ration dollars or more a

You remember the controversy in Dammalegular biologist -- is leader of the pro-

deted just an ordinary cavi and onminal

Overv. Any other mamples? Kantrowitz Thurs was the debate over

screening were issued

durin are public both sides are represerred and thew's no effected to prefend no grass-examination, tights because it doesn't it the analogment tradition of the

Overy: But then neither do matoractico Kantrowitz. And even lowyers are having

Another case involved a utility's proposal to build a high-voltage power line from apolis it went through all the state EPA didn't want it. They started a protest movement, complete with rifes in their struction crows with rifes in their pickup reacts) sent cut state troopers to keep them apart and contacted the American

Lower, The L112's Symmetrical Field Geometry 12" wooder risky.

questions of health and safety involved

with high-voltage lines a florance Court

our business. It pays for a corporation to

Ower. Marparel Meed spoke in layor of

your idea a few ween add saving. 'We

factors, they rivolve a prostauton of so-

ton Dweling National engine Fletter The fet hequency"

Higher A new Dome Reduitor Listen to incided expedication James B Censing Sound Inc. 658 Selbos Sino. New Weekly: GA 91325

Firster Jts.'s new High Rosolu-IBL First with the pros











still struggling with the appearament mucharram, which has to provide a degree of

was suggested and with help from the morunity from the interests of the Estab-Green: Have you been able to do anything Kantrowsk: Last spring i trught on exper-

> pinased to pay that they earn were open dow Roszak. All of us came out of it with a better undestinating than the kind that

> Maybe some of them if they decade to nameson against nuclear-power plants. will do it by learning enough to make questun the builders assertions materal of by deade that's where they should be water

making process. How would you go about a cadre of poople who are devoted to the Oren': Even the best procedures can't get around the fact that we have to make policy

cases it a impose ble to prove that there will ible people to serve as case managers. Im



Burdened by averregulation, budget cuts, and red tape. American science needs a

### **PLATFORM FOR PROGRESS**

BY DANIEL S. GREENBERG

It through the tors of rhotors are

duced in this year's presidential campaign and you I find hardly a topic that the Security health care urban affects and owl rights—the candidates have governed

If recent presidential campaigns are any guide, we may eventually hear a few kind

For example in the 1972 campaign, when Noon varsus-McGovern offered a clear choice on many issues, the Washington correspondent of Britain's Mature accurately observed that These are no inrue differences between the science policies of the parties. The metono is the same - both platforms call for science to be used for the public good. The statements that candicates have utraved for professional scienthe journals in several recent campaions have been virtually effectiveness by. This is

PAINTING BY RICHARD HESS

just as true of their speeches while they count voters who live near big research facilities

Colifornia Governor Jerry Brown standord sa a bil of in exception — but no more than that—because during his brief and unfaulth present control of the contr

compagn costing open size that unlimit as each three politicising consistently ignores solitions and sochrology. What is peculiar about the neglect in that flow activities on the national scene are so lightly bound to Welshington's money power and influence as science and technically open are they probably size, just behind the open are they probably size, just behind the

organization processors and estimated and processors and processors and processors and country sits heartful passers. As the processors country the passers and develope specific the system of processors and develope comes dendry from the UE Messary record through a score of government approces to university storations in industal session organization. The great has been organization the great soften and a few other passes. Notice lant than those monumental liquide suggest Med industrial tims climitally choose reasignin apportunities that other a sea sonebyrapid polyatin five years is a rule of thanto for many comparises. Therefore industrial research concentrates on nearterin profit misking sine shots.

dustain research concernance on neutram problemstage, used table, such as A size of important insearch and the contraction of the contract of the contract of the theodere or increasingly quid insealch assults in on havely sade occurs yet. In the contract of the contract of the footstage of the sade in the contract of the footstage of the contract of the contract of the footstage of the footstage of the research of the contract of the footstage of the footstage of the sade of the contract of the footstage of the footstage of the sade of the product of the footstage of the footstage of the sade of the product of the footstage of the footstage of the sade of the footstage of the footstage of the footstage of the sade of the footstage of the fo

te belogy solid state physics and nuclear fusion would be tall less developed. Simply put. Weekington pays the biggest part of the belf for Amarcan sciance. The prime mover in getting money for assence in the Precedent of the Linkeld.

Congress offers publish care imprint on his disages, what comes out of the legislative process generally bears a strong fesemblance to what the President fled vitroit. Since Congress tends to deel with RRD matters through banding agencies and leaves the disability to be concern.

before codiginal soliciti to deal with redullation of the control of the control of the control of the latenth that by the disability the latenth of the control of the latenth that by the disability that the control of the by disability below the control of the control of the by disability below the control of the control of the NASA the National Secretar Functions of the Department of Determine which by Department of the Control of the country as if the ent of the power control of the control

drubters should consider the influence of nuclear weapons and interprotrained make also or the strength we derive from our science based agnostical productivity. The President's handpicked White

The President's handpoked White House science advisor occurrent te engine yr most influental postorii in the governmant science hardry working obody with the President's that manager of government spenning the decizion of section of white also serves as the administration is chell spotegressin for fluid before Congossi she also serves as the administration is chell spotegressin for fluid before Congossi she policymaking levels of international scienric costatorium automatical past intervitic costatorium automatical past intervi-

Presidents set the pace for government-typopt led exempte even more describly both in positional politics and in entitle in the process of the politics and in entitle in the process of t

vative Dwight Essenhover rescribed a big repeatever and attributes space programson in Kennody asper to project as image of nearonal vigor and technological suppremany reversed Essenhover's policy and began the Apolic monthanting program—the greatest betmological en-

White House his method of effic costom and Colfornia universible and clotheral an apressible shad believed a spread fire wealth program. One maint The than esgalest particle-accelerator hazing in the world the Spill million Patrin National Accelerator Laboratory, was constructed in Balance (Inoper – not where its California desponse a specific particle of the California desponse a specific particle particle of the California desponse a specific particle part

Pichard Neon suspicious of the Eastern Establishment and 4s many villuential soence advisers in government sharply reduced federal spending for so onlife treining thereby precipitating a decline in



Carri

unprecedented three U.S. national chain

needs and athletic habes wil narrow Roger

sport. They allows us to teach prepare diffe. bean. The training methods for coaches

body and spatial awareness one band run aires olimb and grawl around at they

Earlier athletic conditioning and saled

reas and we wood out these required in-

Marshell cited football as an example. A

#### "Most cassettes are afraid of me

A lot of cassette makers have proba-

Not TOK: TOK SA's Super Avoluti magnetic particle revolution and high a biss. There's hendroom for all the For Stewe, "It's a hitle music machine that delivers the best sound, for its

\* In the analysis event that are TDE country over fails



players now for specific casers. We look for weight size forty-yard speed vertical strength, lower-body strength, and more. It a player has sust a few things to do excep-

better Despris this specialization, an athlete succeed in a sport through sheer determnation and talent Danny Padiffs, for exists Padita csed style and what he calls the

best out the brawny behemoths. The point is that construm ourses of parspecific ideas about what and how an attege should perform Anewices relating ent concept of the "perfect athlese" for a sampers, which shifted the emphasis from sons, musquiar leapers to loose, angular

Apart from triaining and selection, sotheir playing equipment. The space pro-

Medicine magazine for example, lists made from the aluminosed plastic ongiin space, as among the benefits accruing to sports from space exploration. The report sizo mentions rechargeable heated

A new stipon plastic form from NASA that takes the shape of impressed objects but returns to its original consour after even

using litheam ceide in a sealed system dreamed-of problems in lootball, for

head-on crash would bother both players

Voleswagen getting paced by a Cadillac.

sports sownce: creation of a perfect ath-

cation of the longs of manipulations that Steroids are harmoral compounds betened doses. After the East German le-

By taking anobolic steroids: writes Dr H. Howald, "one hopes for improved pro- \*

raises some concern that the Summer Charging in Moscow with or wrhold the

pics in Montreal says. It you were in the other was putting forty-pound shots



medical authorines? Why aren't there "There are a couple of reasons why:

Dardik sayo. 'The main one is an interna. mans. It is necessary for someone to give

The outcry against the drugs-which airrents among a host of other ills-has teaming serviter results through genetics means to shift hormone levels set by the ulate the genes you could create a

This has despend into a question of

Such possibilities to far in the tuture, ac-Zinder notes though, that while these tually what Inglitens those people who like be able to do it someday in fabt most

proach to gatetic athlesic creation that will

spiced champions to appear we can warm curselyes with the knowledge that changed but science's impact on all asgenes allow their bodies to attain

plevers, such as quard Doug Ven Horn of

That of course, is science fiction." says

an athlote take his cell take a terbized overn take out the nucleus; and replace it

what we can do it's not within my compatenten DO



## PSYCHOGRAPHICS

Johnny Cash I played this stuff for one hundred people and it turned out that for don't buy it. We ran focus groups, and the

3 said Oh no? They seed We have verbalime! I said 1 don I care if you have don I wear transparent brassieres or what put on a special collect Cher and Fartisey

Hiletrandi Consultanto Inc., savo The negative | personally found Weinstein since

Weinstein's NeuroCommunications man. A corporate commercial doesn't altwenter to sell a product, its ourpose is to develop an irrege and generate good fool-

Their Indinos emphasized the separa

enormous implications for lowering the cost Why do people respond so negatively? it's very competitive" says Hillebranck 1

applied to advertising, is major corporate

manager of cornorate public opinion re-

ability to identify which medium creates

metion. If an advertiser is trying to self on would be a mistake. Should the campaign

that produce a right-brain response only in Niagara. The lights came on in Buttalo."

Sames that more-equally engaged both

speculation or a cheen of ideas rather than

If was especially provocative that the

autes of the brain dealt with ideas

people's imagery, however you must first

or crystal balling is considered a quality

his way difficult to tell the difference between a trend and a faci says Berbara times we don't "Dr Capian, who tracks material on where people have been mov-

came obvious in the press. And after ignorsigns becan appearing in the date pointing Then it was purermed in the marketawaity and aignature clothing. When you

Sporal psychologist William D. Wells, now is 95 percent imation and 5 percent hand data. Nonetheless Dr. Willia eautions

interest in Zen doubled in two years... from our world -- and probably all of it will -- the come from the perceptual angineering

But even if psychophysics and politics

intendible must see the services " "his

"After were done is finding out what the

are different but what is perceived as leman tlavor is leman taxor to treatly

we perceive them as impulses toward ex-



NK MEMORY MILLSEN PACSAABURG

009 95 ALSO Down Sets Com Some Pumberty Securit Set Critical

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#### SIGMUND

communication for the controlled in a code, Passid feeling before the code, Passid feeling before the compact of code, Passid feeling before the code, Passid feeling before the code is communicated with the code of the cod

the Miggan concer probes that the culpturreas it at investal filth a serior to be shown tide, he would de. That it no of thinkellig, however, gires. Fleust an ideal his stating one mode links obtation and use the commonistir to exemption to serior to commonistir to exemption to serior to the commonistir to exemption to serior to the commonistir to exemption to serior to the commonisties of exemption to serior to the commonisties of the serior to serior to the commonisties of the

Your deep epiece probes are I reshed, and your Wigan resistin is done.

"Why is that?" one attendition ways fasty Ween't you being a little fonc?" I am saling you the huth." you swerig the actigatest theig?"
Because you have provided initia, you have wideted circumstances, you have measurements for the format spike field, you have led your way flooding this certainty of the control of the provided in which his accuracy the control of the cont

one time, stopgap outcom to the problem that can never be used spain but that the well weeks of all those on board who cannot discern their right hand from their left and also much cattle.

"What is that?" the same administrator says weeksy We have no cattle on begot !

sign exists, we make no close on to be a sign as a sign

trus yet uncommoded of your moly. They is the centrality of your mile agood storement a clean, high war Feeling astrumphant as the captaining is store for dangerous proble in the captaining his crew for dangerous proble in the captaining his crew for dangerous problems of the commonstation of the captaining his captaini

members of the Whoposty VI consi all uneasily, starring at him washing for him to speak. Freid stands on the Precipias stage, awaying unwently in the walking, obscura braines of the vertilators. "All of you should know who I am. I are

odicinus brisicos of the verificators.

"All of you should know who I arm. I am Sigmand Preud a famous Visit nate medical doctor and support of the human mind who has been reconstructed to help you with your deficulties on this Vegan probe."

have once to give you the solution to your problems.

They shale at him. The hydropomos engineer post down her gain, folds her handle in her lag, and tooks at him hummously. The captain degrise, then sub does with them. Freuch doyle. You must repel the Vegoria-Castion, with not do if Chromispaction will not due. If the less of the administrators will not due. If the less of the administrators will not due. The less of the administrators will not due.

Coulon wine do de Corparapaction will not de Che set the advirretrages will not de Che set the advirretrages will not de Che set the advirretrages will set the coulon de company of the Challe accompany to the coulon de coulon Challe set the coulon de coulon de coulon charge at him. The administrators have both you. They have aways led to you Spacefaget is not the routine translatence of human pains Stace letter from the coem.

and a star propers not a necessarily certury betrieving. Was and the Access Considers are not and brinds. Monsters tark through the custams of space. Everytimes, the captam cays gratefully, "everyting is changed." I tred to sell them—. "He set sharp "He see that to sell them." Feed said.

things activities if their beat series. The contraction late of the Territ Present sign sharply. You must dot. You will send say sharply. You must dot. You will send set things and solving single or of them. Until their sends seeky angle one of them. Until their you will remain used only level their livel see each of you statistically to tell you will are selve you will great in the compact for the solving their things you and bless you all the blows. The septiative beign in the blows. The septiative beign in woods Freed in healthful. There come is hear not seen the work or all on one since

the Audienty as a native of lead, and then price were the press and ablase of point reatinus certainpase. He books in the stress of the property of the property of the desired exempt free lead on the relation feet of the property of the property of the Painty the explaint five descould not be the property of the the property of the property of the the property of the property of the property of the property of the the property of proper

of all the others, to a starting termination.

The massen is alcohold.

Not by the administrators. For Freudthase men of steel and power now have
only the greatest respect.

But by the Yegen space probes, which
do not bring cancer the cligitism, like many
respire, were mislicitudity forengoeth, but

the fire CO



# ANNOUNCING THE BEST OF

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Burt Rutan designs do-tt-yourself dreams come true

# RARE

TEXT & PHOTOGRAPHS BY ANTHONY WOLFF

> It doesn't take an expert to see that Burt Rusin designs the most bosoful light planes in the oky steek and elegant incurristions of the fantases that fly in kids daydreams

base and elegan incarriabons of the finalisaes that fly in kids daydreams and abance fiction By comparison, even the very latest models from the big names—Piper Celains Beech and the nast—

look like warmed-over Piper Cube, so alke that only an ace can tell one model from another. If they dere mately beautiful Futants planes

would be seronautoral time. They wouldn't matter According to the numbers, however. Putters a planes not only look better than the rest of the light-plane flook.

they fly better too hey climb and cruses feater carry heaver payloads farther on a gallon of gas and cost less to buy and

to maintain. And for all their radical beauty hoteful performance, and economy they are interestly safer than conventional designs to the farmewood on world.

of light-plane avaison, Ruten is famous for almost single-handedly pushing the state of the art into the future. He is a pearless over

Top Autentoys with the five-seator (win Deliver, Right The 100 Ap Vention, Ryden's paradigm, church paradigm on vention at 100 Ap April





6Like a latter-day Wright brother Buten invents airplanes obsessively and almost alone ?

whose members design, build, and flythoir own planes. At the EAA's ennual midsum-Rutan's planes-beginning with the Vanthe Ourclee-won the Best Design award in their debut years in 1979 a VariEzo was

in flying compensor, last December a tos Association world closed-course dis-4 800 30 miles nonstop, emphatically Within Rutan's small world, collaboration

Rutari's fecund genrus for coming up with new ideas that fly has been recogble, even preferable, for a plane to fir with back. Ruturn AO-1 is currently trying its prvoting wing at Edwards Air Force Base in California. Meanwhile, in a wind turnel at even at his growing calabrity and the throat

in the Experimental Aviorati Association, when Rutari's planes aren't fiving the privitraffic on the field is the tumb lowerds blow-The hand-stendled sign on the door

proclaims Rubin ARCRAFT RACTORY, but the Wigger, followed by the Verifize and then - building is a corrugated metal prefab right out of the catalog, with an attached hangar not much bigger than a suburban garage voted Grand Champion among some 1,500. The entire permanent staff can go for a ride together in Ruter's five-seater Defant with a sout to spare. Older brother Dick, recertily set red from 20 years as an Air Forno and troubleshooter test prior precision

> nonetheless intense and single-minded Anotanes in penesal, and Putan amplanes one seems to have much time for anything else. Ruten's two marriages faded at least

one was sweet forward and the other in part be admits because of his service. his wives were not amplanes He chales at all lands of defractions



cal Rutan design for a big agricultural grop and Rutan fans grop in at Moures, he is duster dubbed Predator

does at the way he does it. Like a later-day owered. Normally friendly, he take a pur-Wright brother he invents amplianes obses- nains who has promised him color pages in sively and almost alone, collaborating only a national magazine, Every second I'm sityears ago, seeking solitude and low rent, there testing my amplanes Rutan set up shop on his own at Mojava les At Mojave, Rutan's futuratio flyers share the concrete apron with obsolete tratiformeton over the Mouve Deuert Apove A. hules that have made their last landing on 240-pound Ducke rests ignly under the wing the way to the screp heap. On some days of an earthbound Air Force benefician

Langley in Virginia, NASA is testing a rack- of Eng-time success. When avision buffs likely to byte in the back many. Phone nails from would-be financial angels go unanting here with you is a second lim not out

> He wan't even divert time or energy to manufacture amplanes from his gwn de-Verligger-Rozen's Arst, all-wood disage-in

#### IT'S NOT TOO LATE TO BUY BACK SOME OF THE







WARRO JAHR NO DMMI, the mogozine of fonorrow, meons bock issues sould well be oblead of, intend of bahind the times, united supplies of the book issues are still ovilla-

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In pair mate yeals or met encocord-Varicze. Putans most popular design from been baught by most han 4.200 hight erthwasses Oritheries. (30 log effere Ezes into the air. Platas proudly ponits act, all least 10 are postasional airline plots who procursably soon a severa explana. Plutan nor hamp-aream attinad disagning aeptanes as a boy in Caliborne Son Josephi Wilde, senning food and attitude.

or gaptives out they in Clabborn's Son Joseph Polys weren (local and size private for that apphibituation reads in private for that apphibituation reads from even in two access gain adoptive in secondarial amproperation (Carbonn Phytothoc State University in Son Lass Phytothoc State University in Son Lass Francis as covers tool fright company At Natione the Information and pages of a virgin tool - Phytothoc State University in the Carbonn State (Carbonn State And Carbonn State And Carbonn

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possely brocken in gases in arginary the impression of a bed in light, and impression of a bed in light, and impression of a bed in light, and impression of the control of

planes mainly as on arm to hold the bull

lighter more ethicient, and chesper Ha prototype Deliant, a five-passentiger from for example, has only 60 percent of the drag-inducing leated skin land, of orbinary light tuels, and 1,000 pounds leto weight to carry around. More important, the canad makes fluface important, the canad makes flu-

wedget to carry allotter. More reportant, the canand makes Rutain is plained versally stall-proof. An ordinary plane solide, lose the lift—when its wing meets the went at too stalled an angle, causing the smooth items flowed arrower the top purises of the wing to seak alway the top purises of the wing to seak always and become authorised. The plane diops

and earlier societies for the accumination of the Alliande Alliande The Cologo of a secular way at a slightly consisting the consisted wing at a slightly consistent guide and a slightly and slightly and slightly and slightly and slightly and slightly as slight

my pre-camous to study aregis in remains profession or superior and the study, suited all the sery task. The stand will by confectably lookings are seen greyly as the carrow to study there best to make a startice of all daing there best to make a startice of all seens. Lee NASIA bissi jobic moreous own. Lee NASIA bissi jobic moreous own. Lee NASIA bissi jobic moreous has been present in 1912 and souther than the planes or writing for the Walfallia apparent on 1912 and souther has writing apparent on 1912 and souther has writing a south souther has writing a site of the seen seen of seen and solved been seen on seen to solve the seen seen of seen to solve by them seen on seen to solve the seen seen or solved to solve the seen seen or solved to solve the seen seen or solved to solved to solved the seen seen or solved to solved solve

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near By subspecting the secret between For the WetDe Aktion also developed a lower and alto affection shaded do larger or on a single seng americhes in the orthodox feature of the second to be galaxiestages. First the was after to elemente the storm careful havings after that service connectional and specific properties of the freed havings and services connectional and specific properties and properties after the second of the conventional specific properties. The second of the conventional and specific properties are second or freed havings and services connections.

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#### FIRESTARTER

closed committees come budget-renew time. They have their pets in every depart mont. At Harrison. Wankers is their pet is the psych department.

The administration doesn't mind?

"Don't bit naw, my boy wheat is good for Winriese is good for the Harmon pupilitie ogy dagwirment swhoch near year self have set yet you will be to sery own building. No riters alumning with those society by your And what is good for payer is good for Harmon State.

College, And for Other, And all that

Do you trank it side? They don't half to nake the first your transition successful they don't half for student wolunteers if any take gowing agreement. They have own the skipthest question, they test it or ratio and than on convects, tou can be sue that what they re putting not you have been put into receiptly three hundred people be-

I don't like this business about the CIA— The Shop What's the difference? Andy asked

What's the difference? Andy asked moroscely followed at Gorneye poster of Richard Nixon standang in frost of a crushfield puiled can floor was garrieng and a study, if for victory polaid surjour of sach skindered tel. Andy could stall barrily believe the main had been elected President least him a units.

Well I thought maybe you could use the two hundred dollars that stall.
Why are they poying so much? Analy

Quinosy through his hands. Andy this is the government's treat. Can't you understand that?"

A week later the had superved a letter whiting him the had been accepted and assiing for his signature on a release form. Please they this proportion to down on.

sion Davinnigh hall on May 6. The worth Dakk over his enswers on the fessive form synamics on the fessive form synamics with the tip of the Bibliotham of the Walk of the Walk

If the future wife. He has been and she armine He handed her his pen, and she armine are thanks. The loverhead lights made opper glots in her hair which had been absolity had back with a wide wide tribban is she bets, over her form again.

national symptotic graduate same in at the front of the room. Thank you, the SA still as programmed as Robbie the lobal. Poom Seventy Saturday morning the o'clock. Plaisas be on time.

She was very pretly indeed and Andy de crided her legs had been worth waring for They were more than good, they were specticular. "Oh there you are "she said striling."

"Hote I am I im Andy Andy McGee
"I im Vicky Tominson: And a little herviabout this. Andy When'll go on a bad ing something?"

about this Andy What if I go on a bad Inpo something?
This issueds like pretly intid stuff. And even if it is acid, will list acid is different from the stuff you get on the studie or acid in head? Why amouth wery motion and ad-

framithe stuffyou geton the stoset or so is their divery smooth, very motion, and as ministered under very cutter circum sinces. They ill probably pipe in Cesam sufferson Anghaire. And y surrised. Do you know much about 1,50° phases with a little comervise grin which the little divery much.

Very little "he admitted." I had if two not live years ago once last year in so ways it made me heat before it deemed my head. At least that's what is heat a hard what is heat a hard to employ heat a last of yeld oned year teemed be gone. But I wouldn't want to mak slaway habit of it id on the feeling so

of control of Impail Camilbayyou a Coof Control of Impail Camilbay wai deal to the Student Union together. He and od Lobyrighter har Cuber. They spent, the attantion soptime in counting they had a few bees together. Novi harpput if Immail control pre-andtogether in the Camilbay in the Camilbay in of the ways and the waint sour earn how to hardfall He had aboutlying from from the toller pain in the Mariana way ton't for this process reason not adapt ahead and upon the williass from:

If own though she was a little countd.

The G.A. Tooped a piece of rubber should Andy's aim just show the elbow and and. Make a list. Andy dail The view popped up obligancy. He tooked away faulting a little if Ties hundred dollars or not, he had no uppe to waith the nachon.

No stacks: Size offered him a strained am did thought again what bequiriul auto lift har she had how wall it will wish her der blue eyes. Then the psyck of pain i to kned by dull heat in his som.

titue eyes then the prick of pain for er kined by dull hear in his gen it. There the G.A. said comfortingly a. There yourself "Andy said He was no or comforted."

They were in Room 70 of Jason Genneigh Hall suptains: A spoon cost head to been trucked in coursely of the college of sithmeny and the teefle voluntations want lying proposed use on nonsimpless foam place, extrang their tensor. De visioning gave note of the injections femalal stull he with salling up and downlotween the cost with a word for everyone and a liste thosty state. When the control of the control of the state of the injection and a liste thosty state of the control of the control of the control of the state of the control of the control of the control of the state of the control of the control of the control of the state of the control of the control

Andy thought morbidly
The graduate assistant was doing some

LYNCHBURG E-TOTAL OF A STATE SZ Main St. Lynchburg, TN 37352



JACK DANIEL'S
BELLE OF LINCOLN CAP

Denote cureling a special "facility of Langoli, Whenhy" for no ledy should, Polymore, but committee, the facility of Polymore, but committee, the facility of the Burstlery and it came you will thus appeal on the Burstlery and it came you will thus appeal on the Burstlery of the Head on the Burstlery of the Burstlery of the Head on the Burstlery of the Burstlery of the Head of the Burstlery of the Head of the polymore will be burstlery of the Burstlery of the Market Design of the Burstlery of Burstlery of the Market Design on delating at Burstlery of the Market Design on delating at the Market Design of the Burstlery of the Burstlery of the Market Design on delating at the second of the Burstlery of the Burstlery of the Market Design on delating at the second of the Burstlery of the Burstlery of the Market Design on delating at the second of the Burstlery of the Burstlery of the Market Design on delating at the second of the Burstlery of the

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PHOTOGRAPH WORKSHOP

Allow Date in

tape. He was toping the hypologiansit Artdys arm. The needle was stocking into the bulging van. Better not to look. He glanced over all Vicky again instead.

Okay Or Wantess had arrived. He stood b

tween them looking first at Vicky and them at Andy. "You teel some slight pain yes?" He had no accent of any land, lessf of all an American regional one, but he constructed his

words in a way Andy associated with English learned as a second language. Prossure: "Widy said: Sight pressure "yes? If will peak." He swied benowe tently down at Andy Inhis while lab coast, he

speried very laif. His glasses seemed very small. The small and the laif. Andy asked. When do we share? Or Wenters postwood to smale. Do you

Shirhterrink Andy said, generally solventy Screening was happening to her by God he was geting high. He was get beg off. Everything will be time. Warriess said and he smiddled with the said more widely the gaseed on Andy oped took at the needle now. It Solvent.

Thank you, "the said." What a nice to complement. Had the saidther? Or heidhe imagined it? If Grapping the last shields of his mend he want. If there I comment out on the classified

ater Vicky She said placetly "Me too"

"Noe" the signed cleaning. Somewhere solitionine was crying abbling systemasily. The sound rose and in indepenting cyclics. Also what seems better the solition of the seems about the seems are seems about the seems are seems seems seems as the seems are seems seems as the colorest color. Storm as the award particular or the seems are seen in the colorest seems are seems as the colorest seems of the most appreciabable religious to see a seem of the seems of the seems are seems as a seem of the most appreciabable religious to a seem of the seems of the seems of a seem of a seem of the seems of the graph clear and it has dis sound? It was the sound of a seem of the seems of the seems of a seem of the seems of the seems of a seem of the seems of the seems of a seem of the seems of the seems of a seems of the seems of the seems of a seem of the seems of the seems of a seem of the seems of the seems

Wanless was running in stome. The eyes the lad on the oot now looked like dested poschooleggs, Andy noted clarically.

Yes inclosely that the colds were all gathered around the cot, and you couldn't see he sellow arrenness. Describ behind he had chart huig down it allowed the questions of the business and Andylooked afters with great intenses for a whole yet yet in doc

great riseast for a while Yerry in deccasing as Arte Lightson sed on Luight in A biopop hand nose cut of the husble of white coals are the third not a downing man. The Ingers were stasked with goes and streed of Insue hung from them. The hand smached the other! I reaving a blood stars in the stape of a large commit. The chart sattled up on 65 follow with a lood snapping soon.

Then the cot westified is was self impossable to see the boy who had clawed he spas coil; and easy carried from the room. A few manufes, (troons? days? years?) saler one of the grad accelerate carried was to Andry so the easyment has neadle and then imposed some more of its contents into features.

How you beeking 'guy?' the G.A. asked but of power in word in a G.A. He wish in a G.A. He was a little length the both or a gradually subsided. And for another thing this guy worked for the Shop Andro subsidiary little at It was a State but but he you worked for the Shop Andro subsidiary little.

Analy graped for 4 and he got if The sean's name was Paigh Booker.
He smiled Reph Booker Good doal
"I feel oldry" he said. How's first other

What other folia's that Andy?
The one who clawed his eyes out. And;

Boder smiled and palled Ardy's hand helty visual staff tub guy?

No really Vicky said: I time it too tou think you did the G A who was not G A said. You just shared the same for

omathing this a charley horse. No claimed less No blood. He stanted away again. Andy said. "My man it is impossible to have the same illusion without some prior.

his drug if svery possible "he back in a bit okky? "Okay Ralph Andy said

Retch passed and came back 504400 where Analysia on his oon the came back in sicreo. He looked thoughtship down at Analy Analy genned back a wide foolsh diaggod outgin Got you them Retch at son Got you hight by the provincial shorts suddenly a wealth of information about



the Shop for six years before that held been with the FBI for two years he had-

That part wasn't clear And it didn't mat still looking down of him and Andy with but this was deeper and much more

haligenation if didn't assimisal at all now ittle he began to smile. See?" he said softly "With Lot Six, all kinds of funky things. He looked over at Vicky and she was lookened She's getting my emonors, he

Vicky emiled uncertainly back. She asked I from the speakers in the colino, and that (but ner re not taking -- her mouth's not

Are those really grad assistants? She

But what did it matter really? Mend arong cuit of the huddle of whee

Bottor to drift. Vicky was looking troubled.

was give much giper than thinking

were blowing-paper cups, lowels. 8 had seemed. There had been frame of-

the grad assistants rearing "Zap temi



"Ser have the kind of clay when you sally lonh from the case convinced that, at the

Time had stopped but somehow it

The tios let them off at Albany Arport They want in the little girl in the green parts tennis rackets. The loudspeaker system

'Deckly do I have to?" Charles asked

Honey I'm used up. "he said. We have

He hastated and then oad. You know cheeks. Espot don't Ps not not his best them to keep coming at us either I ex-

Little get in creen storich parcs and a red see her If also find been crying a socurity efed on what their names swee so they could be paged. But she wasn't orking

said. The bad men were coming and

Charlie stood looking at them and sive

nevor

instance - their what Doddy called it the

The word for the Bad Thing clanged in

great big Zippo lighter. And then it had

awil change they

Never mind Daddy's head was further

Sally look I understand how you leef but I can explain everything. Absolutely 1 know

#### THE NEWSLETTER FOR GROWN-UP KIDS



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They had added he matter is the She staped into the plane booth at the end har shapping bag introduing. She took the plane of the hook and posteroid althe was thirty—helfo Crampia yes. Daddy and just pain we to fire—and collect out through the plass to see whether anyone was being noise. No circle was The only person niter was a black woman getting faith invariance from a matter, and the partition of the plane in the plane of the person niter was a black woman getting faith invariance from a matter, and the partition of the plane is the plane of the person plane in the plane of the person of of person of

person nian was a black woman getting fight incurance from a machine and his back was to Charles. Charle looked at the pay phone and suddenly showed it.

suddonly obsered it.
A lete govun of affort accaped her an she bit down on her lower to liking the wir is squeezed under her lower. No fisses will no pean inwheal it it fall good to show hings, and that was another flring the scarod her Suppose who got to also the dangerous thing.

one aboved again, very graph who allowed of the comdensy a top of open potential of the comception of the companies of the comtential of the companies of the comtenial of the companies of the comtenial of the companies of the companies of the comtenial of the companies of the companies of the comtenial of the companies of the companies of the comtenial of the companies of the companies of the comtenial of the companies of the

Chref. I did fust als your brother if you don't believe mid-Heill-- Charle gloped the door shut custing off the systyly where gound of his video. She was only seven, but she knew is snow you when she head on she believe is shown as phoses and a moment labor is given you for change. This also she had he big prossto-end per heafty and the custin ausscaldoot his buttern with a bits girding sound.

the butter with a libit prighing sound. The servicement was game when she arms out and Charles want into his booth fire seat was still warm and the ar smelled housely of organide smoken in pile of the booth of the conditions.

work in lothin and one. Eastly Department of the Department of the Control of the West Britishing Shelf share Fance about Assigning the goodstem. Also Colored near off Edition 1990 of the Control of th

gios bars. And when his came back. Sally would be like a big nos applie herself, nige and easily in tall. None of that don't specific herself in the sall were down with totals Desgardo of Manshon Florida. Sally Bradford was group to put usu, and if sheneily believed that chaip about him having had a seasodomy it served her right.

with trible brigates of Minathon Ronds. Sally Breitford was group to put set, and is the nearly believed that draip about him have regiment a selection of some price to And then let he to go marring in her host schoolbescher brother if allie waithed to Edde Deligation would be draining or arm supply those in West Berlin. Her would be-Edde in Auth-Resemble, hard-presemble.

supply flucio in likes Berkin. He would befleder in Null-Resemble, built-pleases chain of daydreams was broken by a stange feeling of warmth coming from the feet, if was as if the floor had successifihealed up to degrees. And accompany ing this was a strange but not complishing unlarmain annal in oil something textners but something singen; maybe?

No opened his eyes and the histiting he saw was that this gri aho had been orusing around over by the phone boofts. It little gri seven or sight years old looking naily ragged out. Now the was clarying a big pager beg, carrying fit by the botton as if it seem full of grocenis or something.

Eddle tooked down and screemed,
 Godampthy Jereaus!
 His shoes were on fire
 Eddle lapped to his feet. Heads turned
 Some woran ow what was happening.

Some woman saw what was happening and yelled in air what was happening and yelled in air who had been read ing with an Afregheny Ariness trapticists looked own to see what is was going on you of which meent doodfunduid to

Edder Designation Throughes of basky trillioford and has heaving of love upon the warethe furthest things from the most if an outtous expose who burning merrig. The cuffs of his stress greater were containing. When the stress greater were containing the section is a function of the containing the women's most was closed and Edder whose some of edd preservation was enquiriety defined in the close straight arm and see not de-whost interest and see and only see the containing the containing the most see not seen that the close straight arm and see not de-whost hersitation.

or the late, for size underside 30 km and data was adjustery that underside 30 km as a clock the furnament bord and all offices as size clock the furnament bord and all offices as a clock to the compared or companyly. There was a traitfall of "What was that?" and "What's going on?" born the law when occupied states fooder compared states for data of the companyly the pay to led door before all others of could all the way and all the way and lated. He gashood both sides of the data of the the companyly and however benefit seed for the companyly and the companyly and the way and the could be for the clock of the data of the the country of the co

If There was a history sound and a remarkable billow of steem.
The hac security guards burst in Held if you in there! one of them cred

Eddle Delgarda szurled DO

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Puth the controllends and she signaled that the apparation of her daughter had turned down the volume. Although the relit of us offl heard the claims at that moment Rath's auditory excited response dasapparation.

"That's a winned "cred Peter
"I knew! didono!! "Ruth sed "As a chic
et school." I used to sum of! the tracher's
word so that when she talked 10 see he
los moving and not heer her apsaking

y at some so that which sho taked 10 see in lop morning and not here her appealing in the same should be some should be should be should be should be some should be should be some should be should be her sat said but location! How had Ruth managed to block her should be should be should be said and widney welved assponder? Did her should be should be should be said and widney welved assponder? Did the should be should be should be said and widney welved assponder? Did the should be should should be should be should be should be should be should should

Firmers, and I concluded she probatly had an unaually leen orality to toosa him altertion on one image white shutting out everything date orand her. Our results showed that when Pudh wisk soong and hearing an appairtion has busin resided set in easied when per-opting a live.

specify promote an experience of the processing a temperature of most of the person i mostled in tractive of most once, saying. Nature inserconsolic just one in stance of anything and concluded there must be other people whose triains have senter capabilities.

How imperity do such experiences once of the people in the person of the people of the peo

our? The best information comes from a comess annotated believen titled and table by a committee of the Society for Project seems annotated to the Society for Project seems to be seen to the Society for Project filters you see who between yourself to except to be seen to be the own your aim of seems of best provided by a living seem which improposation on for any you could discover was not due to an order self hyprical cause?

Adout one in law aresend the corresponding reported more than one such expension. In this provide more than one such expension, the respondents of the Carriers of philausantees. The respondents composed a far sample and that the statistical proportion assessment for the young for the young the provident proportion sensoring fits would be 10 percent for the general population. Under what circumstances do support

di aware and in those trances was likely to be the start of Ruth suggests the possibility in that a symptom such as her wwo hall constone, can beet be seen as expressing at unrecognized talent, not, a hand/cap

unrecognized latent not a handst Perhaps versous mental and wwir physic deprova are manifastations of copebit that patients could learn to exploit DQ 37. Montre Schatzman is as Attended parchall

gh\* Messer Schatzman Is an American payor who lives and practices in London. His eamous with approximate dotated in Almous with approximate dotated in Al-



Imagination. Questions that explode mythis, Ideas that Comment is such in the styling that they meet away any portations. The energy with which people can break tee from a stagnant past, and rocket vito a future in which mon a only boundance are the limits of their imagination.

OMNI MMGAZINE. The key to unleading an impossibilitie force Solar Flaires. Hydrogen Fusion Rad Gains, Black Holes Solaric Intend Solaring science fact. A fartistic look at the creations of men and nature. An insoft into a previously that is a series of the solar solar to a programme that is not a series of the solar solar to a programme that is not a series of the solar solar to a series of the solar sola



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#### JTERVIEW

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The same is true of interestability. We're often spid free we're about a left a genre out of the bodfe, open Pandons's box and so for the We've steeps leed with interestability so that couldn't have invested the discovery of the Open: Channe is no road looker free theirs

on the local management of the local field many people and to require so report body field many people and to relative the people and to relative the people field we would not feel to recognize the management of the local field and the local fiel

like that war itself, or the Black Death Yes

recombinant-DNA plague than consider how public-health technology and biology have eliminated one real plague after another.

against its a reballon it by understand and endorse but its a reballon against a phony lossized deadversion of scanda not the living process that has led us to non-Euclidean geometries much attenges than 2 × 2 = 5!

Tomor Man I Destruction's conferences

Omer Warn't Despensive contemporary Marx optimistic about science and technology? Kaninowitz Vary much so if Marx could hear some of the antitechnological state-

Wastern world haid be shocked Theres to sesson why politics should make one antisochooling call infessor. They should make one concerned with the democratic potentiance of storheady by the tase presenting we can live in the Sectionsh and hearth-list continues without a regroup defending bedinning sectionally. Others they democrate without a regroup of the other whose the difference is that Mark.

tonary, while many people today associate is with governments industry, and weep ons. Take the later, whose applications you've been explaining for a long-time. Most of the R and D on laters now seems to have

military overtones
Kanirowetz: That's bgcause we've backed

today that we had fifteen years opp, will disclaimly very sensitive the other coportionals proceed by high powered lasers, especially laser propulsion. I'm no individual had been propulsion i'm no individual had been propulsion. I'm no individual had been propulsion. I'm no individual had been propulsion in not qualified to judge it against all the other options. But inthis at least a good chance of being overwhelmingly superior for certain

Consider the proposal that we dispose of recician water by proteoring rich the sun. To do that, lists say you'd invast on no more than one chrore on a billion half the proeas would stall and spread the water would fill and spread the water sound fill the proposal to series of one hundred thousand leaks seek, the first series (sucching clutting peoples and one to the series of a neetry vector to make sure that even if the process aborted, the waters would not except

How expensive would such a test programbe? hot very if you had laser propulation. I'm profity sure you couldn't afford it, with rockets even if they were reliable

enough

Comer. Thus MIT canague Herry Koin has
suggested that the same nuclear-water
suggested that the same nuclear-water
suggested that the same nuclear-water
suggested that the same supplies of the same successive supplies to survival the
sound sport displayment puts a variety of same of same supplies of sam

Kentroett. The reason it service under acceptable has ording to do with the idea is foliable promise, but note with the idea is foliable promise, but note with the idea is foliable promise. But not the idea is foliable promise in the industry of the indu

but I don't I we heard the suggestion that we should mediate these source trying to achieve a placed atmosphere in which people will give and take. The trouble is that in mediated negotiations each side



cassa task for den't knoe that spoety's best interests are served by those compromises because the procedure is intetación. Pou don 1 know why your opponent gave in on this pentication if han on that den I den't wort a consensus at all costs. I heart to know the facts.

Crew So you treat the revelatory power of arguments arred at victory more than that of regotiations?

Karwowitz: Exactly I respect the power of

Awardowski. Exactly freespose tills power of Chow Wordshi Schome called the marting, 1884 major pomise. Those pomises and around our in source of science and schooling, and they are incestly while the source of the science and schooling, and they are incestly while the source of the schooling of schooling of the schooling of schooling of the schooling of Schooling Schooling

When I was running the Everett up that a cestion of during with Hans once a month or so, and kept uping the idea or firm At first he found it efficult to ascept because he had devocad hannal or much to wring his operation prestige for good in the world. After a white, through, perhapsing to the good to growth of affractional power.

lead/marti he cirme to see that he needed he could not could be co

To all to like year thach to persuade Philip Moment of the street is a good deep his moment of the street is a good deep hill series of the Science Court Hell agree is a good deep hill sep ples power to bear—and I mean not he strikence but his misliedual power—on the malaze (extention my mind is assimpted as a the closurament is suited his a working on the closurament, is also he a working on the closurament.

Oracl. Do you ever get discouringerd about the prospects of success? Its beam more than the prospects of success? Its beam more than those years store you began, and certainly there are many more pubble to solve merking screened and facchinelogy, but prograss is still allow.

Kentrowitz. No. I'm nor at all checustrous

technology kepps growing — and it seems tame that more end more people are willing to took ke that problem, whether through the Science Court or some other mochanism Ontel: Thank you. Dr. Kantrowsto DO

## NEXT OMNI







BOMETS IN BROCK—Daily you know that the fluggards are discharged in solution which of their count? That there shall industriate with early to a bable to thorough which of their count? That there shall industriate with early to a bable to the country made, for sure captured and the country made of the coun

THE SLECTROME CHARGH—Prises the Lod and don't charge the charges broughted Christians is has been been as unwested powerfully obtained by Age inche Million of disherent of the million of the property of the new value postable by the sidely produced, stretche-born programs of the new value preschess who specimen between this charches ever dut Withmesser of the Livine put the world of Kristian below the Ward of Gad? Find out in August Christ Livine put the world of Kristian below the Ward of Gad? Find out in August Christian and the Christian of the Christ

SCLATCH YorkS—Is smittigging income in the dethrest of the seal good is good Follow which John Gomen as the orders the seal Lived ward of the establishment rank when humanistical applies and weightess to content their more selected some the stars is sit as a worn to which at steal it. American astronomy is disclaimed the employee of paper Spirituals and lockless starks may represent it in disclaim the employee of the paper Spirituals and lockless starks may represent its more marked than the seal of the seal of the paper seal of the seal of the seal of the more start and the seal of the seal

URBAN ILLUMINATIONS—in August One shows how joday's vibbin landscape is conserved related burning, vinculate light and it heristive Photographer Dudgy (require and light coulded but Damed common later centre shall state to terminal bushings and light coulded and training vitic chains of light and generative metaphor ultimy (Reg light, related these banders and martial class (Sharl chails) and menabilities of lights, related these banders and martial class (Sharl chails).

SCIENCE FICTION—The exciting conclusion of a two part except from Suphan King's more American's highlights our August selection. Also exposuring will be a situal study by William Represente on author our outside associated with rearror factor. The Core Sing" as a deligibility exception. Ching is fallow eating. Rebart Stracking investig septicips of deligible and selection of the Core Sing" as a deligibility exception. Ching is fallow eating.

#### PLATFORM

American science in a shaky condition

pacts both on the scientific community

Science Platform will encourage a long-

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years would be needed to maintain a healthy flow of young Ph D s into the

The council has a modest prescription for the problem is long serin program of Research Excallences Award program of Research Excallences Award designed to launch the careers of promising young se-critisat whome opportunities are now limited by the death of sealdenic openings. The folial cost would be only \$39th million own the need \$20 years.

Our obtation plants. The factors increases

ment, in its own interest, should fund a program similar to the NRC's proposel for the duration of the ounting slowdown in acia dame heigh

 Tight budgets have made the American scientific community way causeus in recent years. Declaret students soul cut learners received students from prejects and behalf alley can automaps a called ballow it beginner. The conservation oriends to the agencies that support issearch, the burescoats in charge deat

project the talls on its face. Seamilists however have made some of Seamilists however have made some of their most calable advances by buckering the bode by not playing it sale whete readded their, in expect recognition that long-shot diseased this important and must be besided by the money to support if. Our platform playin to stemulate creative restortion, and hot host way all and project in the control of the control o

aude 1 or 2 percent of as basic issuance budget for innovative projects disjoint gas bursaurase manistrain.

• The federal government has made the scientific contraint or interest to dependent on Washington's where. We need to diversity the support of science Our bost otheromatic but to entire the provide industry.

outch once personned much basic re outch and hissely supported science is to unwestation.

Control of the Contro

What's needed is a tim policy that combins growth and predictability.

Our platform park. The importance of space for our reticost security and general well being dictation that we expand the

port, and insulate it against disruptive changes in its budget.

In an era of stow growth or no growth, the nation carried afferd to distribute its scient this resources according to park burns politics. Yet the reging of existing basilities. statement new force us to sequentmente Affencier scarces (We must accept the stat that a fee large scenario to soften on those effective than many small properties Our platetre plans. Government ages castly somewise equipment and inquisition control to less constructions of control to less constructions. • Sobre energy could complute much is solving the nations a energy of entire. Once solving the nations a energy of entire.

Cally impersible equipment and regular certains for less cessly fiscilletes.

• Soler energy could combitate much to solking themations energy diemma. Once the equipment has been built in a polar facilities and the experiment of the polar handline and versible. Though funds to solar research have inchessed mulkedy in morant versible through but not have

recent years this technology has not been pursued with the intensity and resources clearly warrants Our platform plank. The tederal govern

Our platform plants: The federal governnord must promotes soler energy mail possible ways thom supporting busic-research to developing soler technologies and orealing lax incombres for their institution. • Research reliated to instantal secontly performed by the Debroic Obpursment NASA, and the Department of Energy con-

NASA and this Capacitiment of Energy consistent man the first of all government on the first of all government of the conencessory. The content of the

alzaten, and education fell the United Nations Comference on Science and Such relogy for Development field in August 1779 in Nerma showed that connect could contain the same hunger and proently The United States project on the cultimizers to establish a resourch mature. For collaboration with development properties Compared to the Commission of Co

and the economies of developing nations. We must strongly support any effort is locus Arrandam resisted on the grad. There you have the Christ Scenice Parallam. We ask the carrotates to coming here escuses and white here in mappared our planks into their own platforms. At the writy stadil, such carefulger must explain sist, whall it is will do to help acentro fall as

ence policies we are written by DO

SPACE

regist imagine exormous total waves bat trang shorelines climate changes that would wave out may food growing areas, and countless thousands of square kinds in teams leveled and burned Cavitadion as see kilder is might cease to exist. A hydrio gen-bornib war might not be much more gen-bornib war might not be much more to the country of the country of the per-bornib war might not be much more than the country of the per-bornib war might not be much more than the country of the per-bornib war might not be much more than the country of the per-bornib war might not be much more than the country of the per-bornib war might not be much more than the per-bornib war might not be much more than the per-bornib war might not be much more than the per-bornib war might not be much more than the per-bornib war might not be much more than the per-bornib war might not be much more than the per-bornib war might not be much more than the per-bornib war might not be much more than the per-bornib war might not be much more than the per-bornib war might not be much more than the per-bornib war might not be much more than the per-bornib war might not be much more than the per-bornib war might not be much more than the per-bornib war might not be much more than the per-bornib war might not be much might not the per-bornib war might not be per-bornib war might not per-bornib war war war war war war w

harmful in studies of nuclear-power plant sofely where the probability of a catassrophic accratin a very low the severy of on sequences is usually need to cernard or mandriany preventive measures. Regard loss of which acts of the nuclear-power seasoned assort model of using the region of parties as soft as possible in will worth the case thy amine top may will worth the case thy amine top may supported that all belien apart to previous and sateroid for may be justified by the tit-

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So what can suice to prevent an assess consciously many the same is to propose of constroying. The distance is the propose of wide a significant hall could what the polity on aderects oway from Earls speen crypt as the other sharps of charges in the constraint of the con

Incidend these such the serve knypol ofly the miss will be seen of proper alteracionar remarkers. They have shearly been dusable to flath the self-seen promisers down a series meets and construct the entry of the count where begind Other more maken that beautiful where begind of the more system and we were begind Other more maken that beautiful shearly the self-seen and the self-seen and where the destruction of prediction that might aren't the destruction of prediction that might seen the destruction of prediction and gridly grows out of the bed missingly record and too other we do the right them; such as dusing to weight them and as dusing to weight them.

as acting to improve the human condionly for reasons as questionable as that of an improbable catacitysm. In our itionally ordered world, this threat of and Tungueka — this one in a populated area may be what a will take to spur the worl departments to enterin.

About 2 billion years ago probately just bereith appeared on Earth is descreed astered crashed into the planes of Christon contains the manig lower of Socholy III is a mining lower because about hard of the crasher immediately the mining. Geologists of the crasher immediately the mining Geologists disagree about whether this nich carbon of whether this impact unreply received to the institutions or the Windy unemaringly laves been mining at the size in abody. The work of the control of the control of the their times of the control of the control of the their times of the control of the control of the their times of the control of the control of the their times of the control of the control of the their times of the control of the control of the their times of the control of

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ergne, and wellly I Yourness institute or thouse without charged down to go as The solo fee who wants the most for the loser might spo to Returns Cancera. Deagment, built and tested during a fraction to morthy in the surmer and safe of 1977; the Outcles was respect by a live opinities morthy and an analysis of the propose in produce of the programs of the state of the produce in cashed by Palant-Add for much the congress in any plane of extraordinary legitimes and continued to the contract of produces of the programs of the produces of the produce of produces of the produce th

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three qualities had never been combined in

logoe Delant estaly author/time the best conventional light fews. Compared to Grummar's rise Coopa, for example, a Delant cliniar and cruses 28 percent faster with a maximum clinib rate of about 20 mgh. Carryon film author to shoot 200 mgh. Carryon film author 200 mgh. Carryon film and 200 mgh. 200 mgh. Down film process of author 200 mgh. Carryon film and 200 mgh. 200 mgh. Down film process of author 200 mgh. Carryon film and 200 mgh. 200 mgh. Down film process of author 200 mgh. 200 mgh.

for about \$70,000 well below the prices of conventional light hains. For salary, too, no conventional twin co touch the Default. Like the single engin Eze, the Default is inflemently solvantal.

Eze, the Defaut is inherently additively assumed as a substant assignment of the state assignment of the state of the stat

to best. The prior are prior key flags the company.

The things that a prior has to do so in conventional beam. Platian says. These aren't seen knobs for on this arcplane. In stood of puting the Definits is han 100 fpc (yoursept on the wings. Rulain insurrated have in the along the control does not have in the along the control does not puting from barried the near seed. If our verges covins out therefore the pold does

Threat the laterying to which the plant out of the air.

Ruser's two-placement away weight no more than conventional single-organic planes powered by the same (sporting engine Event-inflat-power thro-bellanticam continue to slaped) claims, and even lurn,

hendouted Deferm printings eithe a preduction arginate the can be facility fluid. Here utertality reagend for furning the cago over to be manufactured by someone eith, or by some new contrainty disting fails control. I want forward to all the printing fluid control. I want forward to all the printing for a white as long as I can. The only with by level treating to all post or an order to be a some printing to the printing printing to the printing of the printing to the printing mercan production by the Federal Awarton Administration. Then the dissign date in the last default all by I coop in registery the last default as the I coop in registery.

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### PEOPLE

By Dick Terns

executive editor and Harlen Ellison, the

story together called Balo partnering a

Boys and Elison's Klas to ABC. The red

As ste from the ymmediate legal issues.

expert witnesses, writers such as Praris Herbert (Dune) Norman Spinrad (The Iron Gream) and David Germaid (Whys academics such as David N. Barruetagn

Unfortunately for the surprism anny of the among us now Judge Aftert Stevens seth electronic cuzzards. His Honor by businessee the Tipty Fence By day

The box root award for the trial has to be

heart of the Chicano bemo Elleon, seeing Device thrust out an accusing armand The vend of PFor the plantiffs-



Harian Elizar outputs countries. Stop that many his sittle one who they're accurrant

integrity of the primacy of interest of a writer in his material. The shedous and mention access practice of outlight theft in the film industry has been struck a harcic blow. The class missage has as for writers who care about their work to talk.

clear massage has is for writers who care about their work to high! [The preceding report was filed by our correspondent Stephen Robinsti...all the

The Total Grand Berlin Control seems still be controlled to the co

I was Jane Fonda.

Mis Fonda as lar isswe know was near apprehended or changed for committing this crime.

Then last February white fields was given a seed of UTA a man with the

org a speech at LCLA a man with the unlawly name of Jerry Ruber – no helenom to the calculateder of the Jain Binheim—the the assertion in the Jack with a discription. While Tale was four required the time the trad he exercise Huber wide smoothably arrested and later convented of bettery the Tales o possible exempting as entirely and a 2000 the ...

Peperhanne Institute has been deluged with proceed one of more than which proceed one of more than the most process of the more call connection between choosite and call connection between choosite and the second of the control of

Since the story broke. Liebowitz's phone havn't stopped ringing. Recorders from all lierde of publications. Inom Naesweek to the Nasonal Enquirer, want to interview him Publishers word him to wante books. Love palvertis warf his help. Publishers.

the and palients. Even here there may be a connection. Liebbourz described his love denjurtices as being typically bright and physmicially structive. And an incidental number of those women he says, work in the pubtern indicativ.

What does he do for them? Since this a patients do not respond to attrideptissant drugs. Each out respond to attrideptissant drugs. Each out treats them with psychology and a class of drugs? called moreountee ouclase attributes which in high the broaddown of phenylethylamine. These drugs have one safely serviced drugs have one safely serviced drugs. These drugs have and a tone medication.

They present some some from attaining organia.

After strending the annual Norwescoti science-fiction consention in Seattle, Washington, recontly writer Theodore Sharpers dropped down to Climpts the state capital to give a talk after label. The state is the control of the state of the state

dropped down to Olympia. The state diagnal to grave a talk attitute coal formaly Herbox, a few minutes to other with Climin be-freehed about change mones ratigion, the future and Straggor's Law Cless; is solence fetton changing? Surgeon, it is changed a lot, and affile it is morning away from the rust and both higher

moving way from the nutril and bottle types of source from over repose to mere apose. Source fector wipeople and their motivational are important. That's what makes good fiction.

Ceses: And what about people like Jerry Pourraile and Lany Need? They we written.

Pountaile and Larry Neven's they writhten the hard revence liction, and skill do sepasalely and logether. Sturgeon Oh sure They're very good. No doubt about it I cartiarly have no largumants with fracts or thosy with me —impose.

Darrings over my polece
Oney How so?
Saugoon: Violi. you know Jerry's been de
scribed as being somewhat to the right o

Gengris Khan Oten: Do you have any favorities among the recent spats of SF moves?



5 Phendore Sturgeon Tells how but law was a

Stargase Well. Size Two for one. That was no notating to me I work he so of the TV expected in [18 stark and I would be the stark and I would be the stark and I would be the stark and I would be set of the the way. Gene [Rossischerory] wonded it to be originally 16 had to make companies to the stark and the stark and I would be set of the stark and I would have been compiletely different there would have been compiletely different there would have been confined to the stark and I would have be

at all Other What about Star Ware? Stangeon: Loved it It was completely consistent—completely consistent Other. And Clase Encounters?

The Block ricle was completely and I chest Have you done any move couple? Statgeort: I've been approached many times built haven I dans much I help was to stay out of that Hollywood score! Clearli Getting back to the seal world what current trends will cause major changes for so in the Jasse?

designed and the street of the

before they get bottor. We may find conselves marching in step, weening the same clothes, maybe for a thousand years or so. But that will and Other: You are forever confrected with Stur-

Gene: You are forever connected with Shagene is Law—that innerly percent of everything is cap. How did you come up with that? Was there is particular moment when you actually \$nought it up? Sharpeon Esuching 1 Oh. you! I was at an

stagged its principle, or yet with a set was a checked by the or a good with one was a checked by the or a good with one was a checked by the or a good with one was a checked by the or and the or an

#### COMPETITION

By Scot Morns

or deserth Compation, sorounded in Assays aded for anagratine Beaders made it be every readily outlong our first alternight. What impressed is most was how the angle starting point they bead assort dreft to out any generate. Container the clother of There Wille Island Laws most the hell (Charles A. Assayson Egyin, Chia.) Osep Andrews Taylor, Chia.

les (Charles R. Jasericon Elyina, Chia; Choq Andrewo Elegian, Chor) Itse control Hell (Lara Beck, Lossianet Chro). I'm inlead shaket (Rusca & Marcin Morthvilla, Mich.) Learn't Heed lensts! (Che Chain Padir Rogia, R.) Steam des et Hell (Rogither Custok Migdlessoot N.) Leis hid nair-mil (Duk Juscab Christop, M.) and All cle in the REMs (Rogic Massistums Carifol).

Repetitions were involated the most Repetitions were involated the most Petition for the following the following Petition four its cope text, Solar flowery "Vad's longer Magginet Theside" — Hat great charmer Authorisme— Moon above, and Hally's Cornel—Ball come yet Fromnerly a hundred than at Albert Drawers. The corn repetit inclused like ellist burns, deal was asset if and Best north T. L. Arth. 1 Porth of Microssipons.

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After many grams looked on good that we
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Modam Care.—Care in advant, Eliza Howe
(mental of the sewing machine)—I save a
how, Wallane—Liow and und Emeric

Took, values—I love at fairly single. Dutherford—I remove of instruct many essavins and to turner up the judge. The Anagazan angines at the too of this page came from Arthur Lander of San Francisco. Chies. Chris Magazee bocarre D, amazing man, and Gazeen montaind games in Ome was proposed to finige in Manas. Games by Sost Morro point Manas. Games by Sost Morro. Gould the magazene published when Gould the magazene authenced when Gould the magazene authenced.

Leonard Nimby — Read only Circle
All in all, a surprisingly good ass
ment Congradulations to all.

GPAND PRIZE WINNER (\$100) U.S. Space Shutto Program—

- Brief V Brasic, Frecino, Clark
RUNNEPS-UP (\$25)

Arno Penasa and Robert Wilson (Nobel Prize winners) — Am and Rob winness Oxio prizes — Ron Nielsen Sterenswille, Mich

Terror Luciana Pavarotti — Top vocal Titan in our era — Acces Materia. Brooklyn N°3 New Yhar's Resolution — Only we aren't

—Jan Hanson Broomfeld Call: Stot Machines — Cash lost in iom

Dishi I Mandellaw — I m element dander — Lyssie Filtimerie: San Francisco, Calif Marry a Sad Heart Can Whisper My Prover — A Merry Christinas and a Hasso

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Visited tremal slow took tripe cubs

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- John D Boelnghr, Canners' Cald

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HONORABLE MENTION

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Star Trek the Nove Lights Veryor Cost

Star Trek the Nove Lights Veryor Cost

- Whiter Date Charleston No. 10

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AUTHORITY

U.S. Secrety 1600 N. Dve Tuctor: AZ 85710 YES/I want to ensure individual freedom and apportunity for everyone in specif. losso osco ostos poder...

Maarra

City State
S a Win will send finds-class mail news updates on the treaty to all donors

#### **EXPLORATIONS**

By Kathleen Stein

Some say that a well-divide real sate is that rule is being changed, in some areas

boat docks, and a swimming area. What is

Pennskamp is a case in point in 1967

recognition that Yellowstone. Yosemsto

The Darbbean Soars an ideal location island stay at the ecologically sound



Coral risols writte housing projects and welfare systems for a plettera of macros als

Maho Bay Camps and explore the myradil logochs and bays that support the reads fringing the island.

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offining irrophere valid of The Deep me waring for you. For the best certil display though, by Pontehance motining ondered the Seccian Books. If was atomy the day I sent local standards that for me ware an other nate universe. Spead cut in apparent when high standard of delivery plate pean and savage fee coral. Amends becomed the plants and plates seemed in creat

and sowage fire coral Anninas bipamed files plants and plants seemed to crewl around this arrimatis. A word of warning Roef fiver is endemic to neal dwap Blacon long you will develop an installable curroutly you'll need to know encoding these financial.

an installable contrastly good more to know the first score life of the polyty. Coral mails are of the housing projects and widthe eyes from 5 or assert life. Their burselinguishes support a larger number of plant and ammal seccess than yet often infraggaments and section of the polytic production of the polytic properties and polytic production of the p

cuts— shifted traffel from and oxygen in females among traffel and traffel from the oxygen in females among the many females and traffel from the females among the females and traffel from the females and the females

the prey's body and paralyze ( with loans Accarla/sbody-hasontly-one opening. The closed end forms the base off the polyp size the individual polyp accesses lime (palournicationite) with builds up above by story of cup affaped exceleration. Over millentus the mistrakia grow into consi chies

com claterately which busics up stay shot stay of copy draped exceleration. Over mill tentus the minutals grow and consi chies fundade of electronic stay.

Cools pump out an amening ten grame of time per square make of polyp surface a day. This requires tentucing amounts of enemal first per requires tentucing and the million of electronic flat of the column and th

this activity corals need continuously moving water that is well it and sich in oxyget and nutrents

and nationals. Polyp love Coroll can propagate assistancy by cell disease and servaily by fascen of make and servaily by fascen of make and servaily by fascen of make and servail servail are hermaphrodice. Eggs may be leathload within an estimation to body and after hasching. The larvail are transported over long diseases by waves and currents. Once they find a suitable support—suitable.

 Spread out in aquavision were huge stands of eikhorn, pillar, brain, and savage fire
 coral. Animals bloomed like plants, and plants seemed to crawl around like animals

another reaf or a wrock—they affer themsolves and metamorphicse wito polyps. A laving self is bissocially a vinner growing is lew millimeters per year aloop a complex lopingsoiny of superimposed sakelatine the description of superimposed sakelatine—

tions of try master builders. Reefs forming palsations self-signance broadwarders that shelter land against storms. The cools is provise structure and meconie inferensioning of buildesses and channels disopate wave energy and allow the flavo of sediment that would otherwise.

The Runda Key roels ensing precedually at the country at the country at the control of the country at the count

The west threat to needs is human intervencion Diversimus learn that beneficial attainant a listerial Such seemingly insignicart damage as absassion invites invision by desidy forms of algae. Some infection speak at incredible rates, stripping the coral's trasue until only a white skeleton remains. If the water is poliuted or if its tight is obscured. The coalal class

remans. Ethe water is politized on it is stight as obsciented the coald clear. The inhabitants of the reof are as inhabitants at the reof are as inhabitants at the clear old only three coals clear. He must impate or stave Dead cond structures like abordanced buildings, decay into rubble, inhelited by permissions and signe. These should be a sign above the enterpress to all with parts. Put ultimit with a transfer of the contractions of the contraction o

some Data case and appear to the consense Data case and appear to the conference but all the parts are before the conference to all the parts are because the contracted to the contract and the consense the contract and the convention to the contract and the convention to the contract and the contraction to the contraction to

PLTRANSIT
Pencekamp Coral Real State Park, Key
Largo, Flordis Open all year Visibility 10 to
100 feet
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Virgin Islands. Features a snorkolers trail

Book Island UAW Park: Bt Crook U.S. Why in Islands: Features a snorksters trail whatley 100 feet plus drawards: GWP Park: on Puget Bound Edmunds: Washington A sunkin drystock and weekled supposal have become the seedbed for a noth variety of marine life wheekley 5 to 100 feet.

Prior Lobus Sala Assense Carriel Calabras An ecological preserve Petri Lobus has been called the greatest meetregolished and water or Earth. Daving this popularity however ten buddy foarts are allowed to dive after the Get Hirther early Vastality 20 to 60 last. San Clagot — Julio LIV Park Lis Jolis California After very popular in features at stocky budden with sandsolare diagnosis of tecky budden with sandsolare diagnosis.

John Submanne Carryon effect should be esserved for expensional divers Visibely 55 to 60 feet Catalins UNV Park Casino Parti. Santa Catalina Island. Cataliona. A protected area monitoring leib and abelone growth Visibelity 40 to 60 feet.

Pies Fathor Park near Georgish Boy Ontano Conada A mecca for whole disens Fercer storms have claimed numertus vessels there. Visibility 10 to 60 feet. PMS Rhone. Sall Cay British Wegn Istenses, Marcha 200 feet on the

There are all lead two other underwater parks in the works Juan Platha-Busto Blass Plark at Monteery Castomia and Palos Works one Los Angeles And the Linear States has Disseption to out rescale, and The Montey Monte Sensibary off Capie Halberts the location of the work of the David Wintercolour sense opposed in 1973, and regulation concerning the latest stripped in the Loceonoming the latest schinged in the Loceonoming the latest schinged in the Loceonoming the latest schinged in the Lo-

## STARS

By Mark R Chartran

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The SMM is dissigned with two mean purposes to study the thrope dimensional details of the vident events called solar faires and to measure with saferine abouting the total control of the SMM with departed on for our laws.

In the post feet years some entrancement have begun to have questions about the sun entited was long thought to be a restrictly simple fusion reactor and entitled with the sun season and entitled with the sun season and entitled with the sun season and the sun season and than the sun should feet freeze particles than the sun should entitle does this mean

emoking, could be finished entered from protestional are may? After a low superations in many? After a low superations skythy wards from energy could. Ever a 0.2 percent of lange yould have great consequences for us on Earth. The SAMM will be able to measure the sum is energy to an accounty of 10 percont For reasons still utilization. The sum has a magnetic left individually superationally buildings.

magnetises with morrocossinary bunches up it incos where the migratic field lines potential frough the surface. This produces areas where the temperature is only about 4 000°C cooler than the upual all sulface temperature of 6,000°C. These cooler make also only about a third probright as the surrounding surface, and so they appear clark, almost black, by contrast. These dark areas we called aurepois. Some of the conspots are consolivately larger transitive som. Deey eleventhy pass roughly the number of apola on the san esothers a poak, away with other scale phaseromens. The joel of

color another past coupling the available color another past coupling the color another past color another past color another past to past The activity varies from past to past to

faility minor peak it was. This you're a arrather peak period, and judging from the buildup it looks as if we will see the second-greatest level of admirty since the invisions of sungots leak discovered. And this time the associations are going to be prepayed.

Most the surrepole was seems of increased analysis including older fusion. Flassis, about 8 000 kilometers about the onentition, an expect in this studies by burst, and are and high-energy particles. A single Table can mississ the energy of STAGAIN Including higher bursts, seeing temposatases of the studies of mission of largories in hoster than the studies of the studies of

The instruments about the SWA wat morelor regions of the son where flares or expected. Feltern times a day the data will be radiced to the light operations office at the Golder's Space Flight Center in suburban Maryland. When hours most of the information will be available to meson controllers. Tempetral observations will also cookanate series of that

will also occurrate some of their observing time with the papeocraft. During the year forig program—it is likely to be extended—the coordinated assessing the the second state of the second state of the second when it has the second when it has begin to the grouppaid, and which—if any—of our modes of the service magnition activity are control.

The SMM reself is the first satellite designed to use the multimescen bus, a wind of stack base unit the can supply power enfluide control, data handling and communications for many types of space mesons this designed to be represed in otal if received.

The SMM is also devicated to be

The BMM is also designed to be remined from but and brought back to burshed from but and brought back to Earth. This is the first fulfill from to the space shuffling promise dismortly uniform more into effectives schedule the SMM is due to be caught and estimage to December 1952—by the second light of Shuffling or the shuffling of All a planning meeting for the mission apportion into pound Physics Today. Dr. more statements and some statement in proposition in the pound shuffling to the proposition in the property of the pound shuffling to state.

At oplanning meeting for fee mission aportion in the journal Physics Today Dr. Planker endemly saw our otderright to understand the universal as a sort of divinicement," The son, then The said, "is our Warpt, acting as guide through level after beet," as well both more closely into the inflamo." But their set absendoning all hope of an But their set absendoning all hope of an



Solar Max will send its data by relay satellite

## GAMES 64 spos/Spiz

QUIZ 1 HOMONYMS

6-b Mars



OLUMBLE MACHINE

DUZ 2 HOMOPHONES



DUZ 3 HOMOGRAPHS

4-e defect

10-a conduct



New York City for first calling the error to Smith's death, and to Warren Jackson, of sity in New York, for helping to put me in touch with Dr John R Ford Thanks DO

#### EARTH

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#### COMMUNICATIONS

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call Flyray), but of Occa as is converted, processor and control of the Control

Sharran Keiller

Bed of Crisis

This is a note of appreciation for you of Other Strange Fiction. It has to I most enjoyable bothon collection and the best I have ever read. The cho

the East I have ever read. The choice of stones was lantastic!

I art a regular fan of Ottos, and I never mas an issue. Next to the festion and the Games pages. I have your carbons.

Darbra Dolt

Thank you for both the superb graphics on the fiction contained in the Bear of Orres Science Fistion's Swinning the articles that I have head in Other was well worth twice the proce of the issue.

Lessance D. Germ Jr.

Graphics
I find your magazine quits flectmeting: But what really blew my mind was the cover of your May 1980 Jasus - Their porture is breautiful i must have standed at a for an hour

I was greely taken by the an accompany ing "Non-Like Usi Billey 1990). I fland in fer to your sale. Our the speciation was own rickle interpretare. There is no way the great could have insort that the institution was present the special properties. The could have insort that the institution is few story was suggested by a syncite from Heronyrus Selent Leaf Angelsen. The art was perhaps a little closer in finaling to the younger Emphylat Selent to Bood, but

That's ow of one half a chosen of the other.
The panning is simply perfect for the stary and proven that the artist really understood of a what he was dealing with though his inhough the prefetation was surreal.

David A Drake Chapel Hill, N.C.

I ve seat the Fobrary (1860) sear of Ormor down or own and have set of all a check loday for our own authorsplan is solving never to be without the megianne again. One of the most sunning things in other Fabricary owns was Feed Durant's piece on Checky Sonstell and his six this he beautifully reproduced examples of Sonisaki's pointings. I ve seen some of Sonisaki's pointings I ve seen some of Sonisaki's pointings. I ve seen some shows program liferie, at mit Sindharinana Ari and Space Misseyum and I have seen some sports sproductions wismans, but

G Edward Pendray Founding Member American Interplanating Society Jamesburg, N.J. Cosmo Rie-eff

generation star Elpace, February 19801 made the think wo ve been vectors of a grand cosmic swindle. They gave us a used solar system?

Joan Abusto.

treeried
The photograph on page 39 (Continuering
May 1980) of a probatic synthesis reaction

is inserted. The electrical clearing of the in such a student will give not to organisms will their heads and backeds intestranged and 1 for one see no comparing meet is another governmental body figured with substances at conditional parties in seni if does make non-levy girl her teeth.)

Costa Mesa Calf DC

PHOTO CREDITS

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The suitable for the repositing of Misses 66 cure

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The digit of some first page of both states of control from Charles (Section 1) and of the control from the

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#### Can we know our past lives?

Do experiences of past lives cling to our constriences—as the scent of a flower lingers on? There are mistake you could avoid—things you could do difterenty—if you could be cettain. Have you felt strangely unfilte yourself—more like someone sise—with different inclienfiness and personality? Do new

places and faces seem funding FREE BOOK

Do not let hypocrisy and prejudice deny you the truth about yourself Reinmanulion is just one of the many subjects dealt with in the Rosicracian teachings. You can live more fully, masterfully, if you use your Comic powers and faculties, Write the Rosicracian (not a religion) for a free copy of the book, "The Mattery of Life" accuracy "The

### The ROSICRUCIANS (AMORC) San Jose, Colifornia 1811 ILSA

The HORSTHOLIANS (AMERIC) fits June, Children Still U.S.A. Please and me a complementary cupy of the look THE MASTERY OF LIFE.

Althou Cey......



#### PHENOMENA

The well-designed house the property of the pr

#### **GAMES**

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139 CMN

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BURBLE MACHINE Follow the Subbles

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Del Draw get proper medical aftertrant

Did Drew get a transfusion? "It wasn't

How did such a mythiget started? Food blames poor reporting by the minority pross of the Fifties but he is being too and Someone made the story up probably for political suppresses. The local



STEEL MAZE. Crawl from arrow to arrow mode the steel subas. Don't for the Affections fool your

and the clamate of the times made the tall plassible and people wanted to believe in another hombile example of who people's inhumantly Cuncusty an almost identical tale sur-

oreplies influencing. Company of the second service of the death of black blade queen counts in the death of black blade queen counts in the death of black blade queen counts of the service of the serv

Charles Chevis death will finelly be pured but we are not optimistic. Journal wonit quickly abandon a widely cross-referenced she that the table of a rest inprofilescent For our park, we see present to help remove it 30 year stigma that has unjustify following death of the common from the doctors at that Burington, North

ING HINT The fast metch up guezes on the

opposed person and totaled on what opposed person and totaled on what of the control of the cont

COMPETITION #14 DOUBLE DACTYLS

Phospiedy Popledy,
Or laste Asserv
Wrote many volumes of
Enucles staff

Black holes to Imencks Incontroverably, I think that he s written Sill not enough

Intrinsic any inythic form as adoctors as the limench; if as the double dectyl. As dofined by Arthony Hecht and John Hollander in their book Jaggory Poleny A Compendation of Double Doublyt. (Atheneum) the form has these charac-

Settines (1) an eight-line poorn er wisch in fourball and eight himse hyme and color er wisch and the settines of the settines

All entires become the property of Christians will be retained of thirtee must be opportunited by August 15 1560 (Bagtereber 1 for postmerke dysted the United States). The first-prese writer will mobile 5100 Plumaneu by (2 through 10) will eath service \$510 Plumaneu by (2 through 10) will eath service \$55 Sent to Christians of the Chr



are stopped where the blue areas four



# LAST

By Larry Niven

The concept of money burning a hole in your pocket would take on new meaning 9 It happened around the time of World War I The director of sessenth for Standard Claves and, There is it has gog left over when we refine oil. If stemple stuff it have the hard to overing much direct only jest the dirt godey Find something to do with it.

So the created the oliketos individual for the control of the con

econstant to do with a So he created the plaintus industry. He lumed useless, offensive goo repowaith He was not the best in industry to do so Consister of steel useless, offensive goo, until rive needed to Montale some of the original subsenses of series of the original subsenses of series of the original subsenses of series of the original subsenses of he was a subsense of the series of the original subsenses of he was demand to the series of he was demand to the series of heart Certailer subsenses of the series of heart Certailer subsenses ones of the feet of the series of the series of the heart Certailer subsenses ones of the feet of the series of the feet of the series of the feet of the series of the feet of fee

and shift that corres and of a lack while's head. Consider sturgeon caver. American factormon use still throwing nawey! And the Upparties consider cheere to be what it always started out to be sourmle. Naw plans for the disposal of expended nations from time the such strategies as Outung and burying?! Passing his control of startegies as Passing since the such startegies as Outung and burying?!

Distancy and burying it
 Pouring it rate old international oil wells.
The Rassams hell oil that it ought to be sofe, other all, the oil stayed them for melions of years. We may green as that inscernly, the deplated oil wells they use for this purpose are all located at Polland
 The Poursele method. The No. No. Advanced to the control of the No. No. Advanced to the control of the No. No. Advanced to the No. Advanced to t

types tell us that street has or American decort have should been rendered useless for thruserand of years because them recolour borrios were tested three Let us take them at their word. Carl the receiver westers out no a patch of criteriod desort. Put several riving of fence sizured it and legres on the fence is FYOU DROSS THS.

Strott You His. Dec. (Transhid, these will be people willing to Granshid, these will be people willing to stroot the force. There of it as lookubed in success of the personal personal poole up by a frection of a personal in Complete in the personal by a frection of a personal complete. The produce of which is discount of complete. The redocutions would go back and of it The redocutions would go back.

Make cents out of it.

Radicective money has pertain obvious advantages.

A healthy economy depends on money cropulating first Makes it radioactive and

it will certainly croulate. Verifying the genuinerwise of money would become way. Galget counters, like pocket calculations before them would become both thing and cheap because of states production followed by would her their rapid citienty at very fixed twenty will be the proposed of the properties of the production of the productio

Gold most still be the mark of weath in Gold blocks radiation as easily selected if would be used to shread the weathly from it that money.

Their money
The profession of tixx collector would carry its own well-disserved penalty 50 would partain other professions. An Area of shek would sail grow date anely soft, but at least we could court on his

but all table with both or common in the prima fertal. A more beautiful prima fertal in the prima fertal. A more beautiful prima fertal in close to control fert in A basin volider would be companished, but do the control fertal would be companished, but do the control fertal would be companished, but do the control fertal beautiful prima fertal control fertal principated would also study of the product on the control fertal prima feet to the control feet to prima feet to the control feet to prima feet to

Fowgr and to Threat World occurring outside and other obligation. When the outside and other of stay upopers schemars Or could be American people be brought to accept the exclusions schemars or could be accept the outside the schemars of an observation of the schemars of the could be people appropriate an enter of the people appropriate an enter of which used to be it occurs a result in executing to which used to be it occurs as enter or as suppary of them. Unit or come the

earns to privil 8 tearthy. At least the calcidactive money would have intense value of West we have been calling hudden waste our decondarts may well not on as see! It is derapseus processly because fruindings kasen, because in during process have, because in during process waster, because in during power Unfortunderly, the study of board in fast Thousands of years? In 600 years the expended fuel is no more marked that the top of from which it was

naticables that the orefrom which if wild many obtained. Dropping natioactives into the seaso wasteful. We can ensure that they will all be around when the earth and and couland plutionium have been used up, by juries of them into money now DO.